Minnesota Medicine

Journal of the Minnesota State Medical Association, Southern Minnesota Medical Association, Northern Minnesota Medical Association, Minnesota Academy of Medicine and Minneapolis Surgical Society

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A Tribute to O. H. Wangensteen

THIS YEAR marks the twentieth anniversary of the first work in intestinal obstruction by Dr. O. H. Wangensteen, Department of Surgery, University of Minnesota Medical School. As the years have gone by, our knowledge of the value and limitations of siphonage drainage in ileus have been crystalized. There is no question that the simple expedient of decompressing the intestinal tract has made many operations upon the intestinal tract feasible or at least has lowered their mortality. Dr. Fred Coller of the Department of Surgery, University of Michigan Medical School, has stated that Doctor Wangensteen's work on decompressing the intestinal tract has been the greatest contribution to surgery in two decades.

Doctor Wangensteen's first interest in the subject of intestinal obstruction was not encouraged by some of the older members of the faculty who told him that "everything that could be known was known about intestinal obstruction." Also his first paper was rejected by the editor of the Proceedings of the Society for Experimental Biology and Medicine as being of "little scientific interest." As a result of this research, however, one never sees now-a-days an ileostomy or colostomy performed for a paralytic ileus, or hears that cases of strangulation obstruction should be treated conservatively. It is true that patients with complete mechanical obstruction of the large or small bowel still have to be operated upon to relieve the obstruction, but in the partial mechanical obstruction due to adhesions, how many lives have been saved and how many operations have been avoided by decompressing the intestinal tract with an indwelling intestinal tube?

Recognition and honor have come to Doctor Wangensteen in the past few years but he wears his mantle of greatness with modesty. More than his interest in research has been his interest in the training of future surgeons. Few teachers have had the respect and affection of their surgical fellows tendered Doctor Wangensteen. It was characteristic of him that the check presented to him at his testimonial dinner by the St. Paul Surgical Society in January, 1951, was given to the Travel Fund for his surgical fellows.

It is a happy occasion that this number of MINNESOTA MEDICINE is dedicated to Doctor Wangensteen. Few surgeons have received such international renown or set the pattern for surgical thoughts among their colleagues as he has. We in Minnesota are proud of the accomplishments of this native son.

MAY, 1951

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FLUID AND ELECTROLYTE BALANCE IN INTESTINAL OBSTRUCTION

FREDERICK A. COLLER, M.D., and ROBERT E. L. BERRY, M.D.
Ann Arbor, Michigan

INTESTINAL obstruction has always been a dread event, one of great anguish and danger to the patient and one of great anxiety to the surgeon because of difficulties of diagnosis and the complexities of treatment. Both patient and physician owe much to a comprehensive study of this problem initiated by Dr. Owen Wangensteen more than twenty years ago. It has been carried on by him and his associates since that time. They have gone a long way in clarifying the many phases of the disease through their scientific and clinical studies and they have given direction to other investigators and important aid to the practicing physician.

The most widely acclaimed of Doctor Wangensteen's many therapeutic suggestions was a method of decompression, and the phrase "Wangensteen suction" has become fixed in surgical language. However, his studies on the nutritional and acute chemical abnormalities produced by intestinal obstruction, while perhaps not as spectacular, have been fully as important. In tribute to this phase of his research we present this brief review of the chemical imbalances associated with obstruction of the bowel.

The composition of the body fluids is now well established, but the factors that influence their rate of motion are as yet practically unknown.

The reconstitution and maintenance of the water, salt, protein and red blood cell needs of the patient with intestinal obstruction still present many challenging problems. By necessity, therefore, any discussion of fluid balance problems peculiar to this condition must be approached with awareness of our lack of knowledge of many aspects of body fluid dynamics.

Our concepts of treatment of dehydration produced by intestinal obstruction have been slowly evolved from the great amount of research, both experimental and clinical, done by many investigators. That the abnormal loss of body fluids could produce serious and even lethal sequellae had been observed by O'Shaughnessy (1831) over one

hundred and twenty years ago. His researches in which he observed hemoconcentration, diminution of blood sodium, chloride and bicarbonate as well as increase in blood urea in patients with cholera were remarkable original investigation for that time. Based upon the response of his patients he advised administration of "the normal salts" of the blood either intravenously or by proctoclysis. Despite confirmation of his work by other workers, full acceptance of his observations was not achieved until much later because of inertia and ignorance.

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Prior to 1912 the accepted theories as to the cause of death in intestinal obstruction were: (1) the reflex nervous action on the cardiovascular center, (2) the bacterial invasion outward from the intestinal lumen either into the peritoneum or into the blood itself, and (3) the absorption of toxins from the intestine produced by bacteria, food decomposition and secretory activity of the glands of the intestine. The importance of dehydration as a lethal factor in obstruction was first suggested by the experiments of Hartwell and Hoguet (1912) who observed that the lives of dogs with high intestinal obstruction could be significantly prolonged by the subcutaneous injection of normal saline solution.7 These investigators felt, however, that the loss of water due to vomiting was the important element in the development of symptoms and that intoxication resulted from tissue disintegration resulting from such water loss.

Observations upon the profound disturbances in the electrolyte pattern of the blood in experimental pyloric obstruction were first made by MacCallum and his associates (1920). These investigators found that such obstructions produced marked decrease in the blood chlorides and an accompanying increase in the alkali reserve. There was also an associated increased electrical excitability of the nerves that could produce violent convulsions. The beneficial effects of the administration of large amounts of sodium chloride were also observed but the mechanism by which such benefits were obtained remained obscure.

From the Department of Surgery, University of Michigan Medical School, Ann Arbor, Michigan.

Hayden and Orr (1924)6 observed the same changes in blood electrolytes produced by obstructions of the small bowel as had been pointed out by MacCallum. In their interpretation, these workers assumed that the fall of blood chlorides was not due to abnormal loss through vomiting but to fixation in the tissues with a toxin from the obstructed bowel. This utilization of the chloride ion was assumed to be a protective mechanism on the part of the body and that the administration of large amounts of sodium chloride reduced this toxemia. The views of Hayden and Orr were strongly attacked by Foster and Hausler (1929) who concluded from their experiments that death in intestinal obstruction was due to dehydration and starvation and there was no evidence of toxemia.3

A sound basis to explain many of the laboratory and clinical phenomena observed in obstruction was first offered by Gamble and Ross (1925).4 Their observations led them to believe that failure of physiological processes and death following experimental obstruction of the pylorus could reasonably be due to continued reduction of the volume of body fluids by continued loss of chloride and more importantly sodium and that the beneficial effects of sodium chloride administration were due to repair of the chemical structure of certain body fluids permitting recovery of a normal volume of body water. They also pointed out that the administration of water with or without glucose or the chloride ion alone (NH,Cl) was not effective in preventing dehydration. After twenty-five years these observations remain as the basis for the restoration and maintenance of the extracellular fluid volume.

Gatch and his associates (1927) observed changes in blood electrolyte similar to those observed by Gamble, in small bowel obstructions. They also attributed death in intestinal obstruction to dehydration, reduction of blood chlorides by vomiting and starvation. Their experiments demonstrated, however, that sodium chloride treatment was not effective in strangulated obstructions.

Following the researches of these pioneer investigators the great bulk of experimental and clinical data has provided a progressive betterment of our knowledge of the treatment of dehydration produced by intestinal obstruction and futhermore has suggested that almost all, if not all, of the deleterious systemic effects associated with

intestinal obstruction are due to dehydration and bowel distention and that toxemia in simple obstruction probably does not exist. Strangulated obstructions and particularly those in which bowel perforation has occurred with general peritoneal contamination may produce toxemia, but the toxemia is due to peritonitis and not to the obstruction itself.¹

The degree of depletion of body fluid and electrolyte, both extracellular and intracellular, depends upon the site of the obstruction, duration of the period of loss and whether perforation of the bowel with resultant peritonitis has taken place. As a general rule the higher the obstruction and more prolonged the period of distention and vomiting, the greater will be the loss. The clinical picture may vary, therefore, from the patient showing no signs of dehydration to the individual who is in severe shock or moribund from the loss of body fluids.

All attempts at replacement of the constituents of the extracellular and intracellular fluid compartments lost in intestinal obstruction must be geared to the history and the clinical picture presented by the patient. Too much emphasis cannot be placed upon the importance of using the clinical status of the patient as the primary guide in replacement therapy. Laboratory studies of the blood and urine may provide important confirming evidence as to the patient's status, but reliance upon them as an absolute guide is inaccurate and may be hazardous. Maximum accuracy is obtained by the careful correlation of all clinical and laboratory guides, with the clinical appearance of the patient being paramount in the estimation of his condition.

Electrolyte Replacement and Maintenance

Effective rules or formulae for the replacement of electrolyte cannot be offered because of the necessity of adjusting such administration to the clinical condition of the patient. The emphasis has been and still is upon the replacement of the chief extracellular ions sodium and chloride. The large losses of body fluid associated with severe and prolonged intestinal obstruction also produce depletion of the important intracellular ion potassium.

Dehydration observed in intestinal obstruction is of the mixed type containing components of both water and electrolyte dehydration. When

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TABLE I, SYMPTOMS AND PHYSICAL SIGNS PRODUCED BY LOSS OF TWO TO SIX PER CENT OF BODY WEIGHT AS EXTRACELLULAR SALT WATER

Two to 4 Per Cent Loss	Four to 6 per cent loss of						
of Body Weight as Extra-	Body weight as Extracellular						
cellular Salt Water	Salt Water						
Anorexia Apathy Weakness Reduced affective responses Nausea Vertigo Soft pulse Diminished peripheral venous filling Variable changes in blood pressure Loss of tissue turgor	Aggravation of all signs and symptoms found in 2-4 per cent body weight loss Retching Orthostatic hypotension Tachycardia Wrinkled tongue Marked loss of tissue turgor "Putty" like muscles Soft eyeballs Shock						

manifest symptoms and signs of severe dehydration are present, between 4 and 6 per cent of body weight has been lost as water and electrolyte (Table I). This offers a clinically effective index as to the quantitative amount of repair fluid that may be necessary for repletion. In the absence of shock or hypotension, replacement should be started with a 0.6 per cent sodium chloride solution rather than 0.9 per cent, as it is felt that this solution is handled more physiologically by the body and provides immediate water for insensible loss through the skin and lungs as well as water to aid in the formation of urine. If hypotension and shock are present due to sodium chloride depletion, then the administration of a 1.5 to 2 per cent sodium chloride solution combined with blood transfusions is indicated until the blood pressure is brought to satisfactory levels. Repletion can then be continued with the 0.6 per cent solution.10

When adequate repletion has been obtained, maintenance of electrolyte balance is usually less difficult but just as important as repletion. Volume for volume replacement of the extrarenal loss of body fluids, excepting insensible loss, with lactated-Ringer's solution is a satisfactory working clinical guide.¹

General improvement in the patient's clinical condition, diminution of signs of electrolyte dehydration, reappearance of adequate urine output containing satisfactory amounts of chloride, and the re-establishment of normal levels of blood electrolyte and pH—all present positive evidence as to the effectiveness of treatment.

Potassium, the chief intracellular electrolyte, is lost in significant amounts when large volumes of gastrointestinal secretions are aspirated or lost by vomiting or diarrhea. Furthermore, it has been observed that the administration of sodium chloride solutions used for repair can further increase potassium loss.8 The importance of replacing this physiological important potassium has not been thoroughly appreciated until recent years, and considerable attention is now being given it in surgical literature. Experimentally, it has been demonstrated that the lives of dogs with pyloric obstruction can be significantly prolonged beyond that reasonably anticipated from the use of sodium chloride when potassium salts are added to repair solutions.2 Potassium salts should be added to the repair solutions, after adequate urinary output has been obtained, to aid in the restoration of intracellular water and electrolyte. The oliguria associated with uncompensated large losses of body fluids may make the immediate administration of potassium salts hazardous because of the danger of heart block when serum potassium levels approach 10 to 12 milli-equivalents. Two to 6 grams of potassium, either as the chloride or a combination of the monobasic and dibasic phosphates, may be added to the repair solutions daily.

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Water Repletion and Replacement

The status of water hydration is closely allied to the quantitative available electrolyte, as total body water is dependent upon total body salt. Additional water is necessary, however, to provide for the insensible loss through the skin and for the formation of sufficient urine. Water for this purpose should be given as 5 per cent glucose in distilled water as the administration of sodium salt solutions necessitates the "distillation" of water by the renal excretion of the excessive salt, a process that is often inefficient in the sick patient. Dependent upon the environmental and body temperatures, insensible loss ranges from 1000 to 2000 c.c. per day. During hot weather it may be much greater. Another 1000 c.c. of fluid or more is necessary to insure adequate formation of urine.1

It has been pointed out by Wangensteen¹² that careful weighing of patients preoperatively and postoperatively affords valuable information as regards too rapid depletion or accretion of total body water. Scales for this purpose are accurate to within 100 grams. In obstructed patients, however, whose hydration at the time of hospitalization may be far from normal, this method has diminishing value. When dealing with normal kidneys, a most accurate index of water needs may be

obtained by the urinary specific gravity. If the specific gravity is less than 1.020, it is reasonable to assume that the kidneys are getting adequate water to perform efficiently. If the specific gravity is greater than 1.020, the kidney may not be obtaining enough water to work with, and further administration of fluids is indicated.

It is obvious that during a period of repletion and subsequent maintenance of a seriously dehydrated patient that several liters of electrolyte and glucose solutions, together with blood and/or plasma, must be administered. There are hazards of overhydration particularly in older patients and those with poor cardiac reserve. Symptoms of overhydration must be carefully watched for and the administration of fluids slowed or discontinued as may be necessary (Table II).

Acid-Base Balance

Because of the disparity of the relative concentration of sodium and chloride in certain gastrointestinal secretions, as compared to blood plasma, their loss may produce an increase or decrease of blood pH depending upon which ion has the greatest loss. Most acid-base disequilibrium states in intestinal obstruction are of the metabolic type. It is therefore reasonable to assume that a fairly accurate estimate of the severity of "acidosis" or "alkalosis" may be obtained from determination of the CO, content of the blood. When present, severe compositional changes of this type should receive early and vigorous treatment. Alkalosis, as manifested by increased blood pH and carbon dioxide content, will respond, in the majority of cases, to Ringer's solution without added lactate, normal equilibrium being established as repletion is completed. Extremely severe alkalosis may require the administration of 0.9 per cent ammonium chloride solution, but these cases tend to be unusual. It should be remembered that potassium deficits may be associated with high refractory carbon dioxide content of the blood and that correction of the alkalosis is obtained only when potassium salts are administered.

Acidosis, manifested by low carbon dioxide content and lowered blood pH, may be treated by a one-sixth molar solution of sodium lactate provided that shock or liver damage is not present. The administration of sodium bicarbonate as a 1.3 per cent solution will be necessary to combat acidosis in patients in shock or who have severe

TABLE II. SYMPTOMS AND PHYSICAL SIGNS PRO-DUCED BY ABSOLUTE WATER AND/OR SALINE EXCESSES

Al	osolute Water Excess	Saline Excess					
1.	Due to extrarenal excretion of excess water: Salivation Lacrimation Non-projectile vomiting Diarrhea Intracutaneous edema	Disorientation Anorexia Nausea Vomiting Hoarseness Heavy eye lids Diminished urine flow in relation to intake					
2.	Due to increased intracranial pressure: Headache Disorientation Muscle twitching Bradycardia Vomiting Nausea Elevated blood pressure Anorexia Increased spinal fluid pressure Convulsions	Subcutaneous edema Pulmonary congestion Edema of parenchymal organs Ascites Hydrothorax					

liver damage, as sodium lactate is inefficiently utilized when these conditions are present.

Plasma and Red Blood Cell Administration

With strangulation, thrombosis or embolism of the blood vessels there will occur a loss of blood that is always serious and may decide the issue. In other forms of obstruction a better understanding of the acute serum protein deficits and red blood cell losses in intestinal obstruction has emphasized the necessity of their replacement during both the repletion and maintenance periods. In the presence of severe sodium salt depletion the total circulating protein diminishes at approximately the same rate as the volumes of plasma and the extravascular extracellular fluid do. Large losses of extracellular salt water are associated, therefore, with losses of plasma protein. The rapid reconstitution of extracellular fluid volume without replacement of this plasma protein loss is to invite loss of vital intravascular fluid into the interstitial spaces, with resultant edema, because of increased capillary hydrostatic pressure and decreased colloid osmotic pressure. At least 500 c.c. of blood, therefore, should be given with each 3000 c.c. of repair fluid when repleting large losses of body fluids.

Acute protein loss may be further augmented by loss into the edematous bowel wall and transudation into the intestinal lumen and peritoneal cavity. Repeated transfusions of blood and/or plasma may be necessary to replete such acute protein deficits. If peritonitis has followed bowel perforation, there are even greater losses of blood proteins, and generous transfusions of both plas-

ma and blood will be necessary to maintain the plasma volume and the circulating red blood cell mass.

Summary

- 1. The important lethal factor in simple intestinal obstructions is dehydration and bowel distention. Toxemia probably does not exist.
- 2. Knowledge regarding fluid and electrolyte balance in intestinal obstruction has been importantly advanced, but many aspects remain poorly understood because of inadequate understanding of the dynamics of fluids between the various body fluid compartments.
- 3. The repletion and maintenance of the various extracellular and intracellular constituents lost in intestinal obstruction have been discussed.

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A PROPOSED STUDY OF PREMATURITY AND CONGENITAL MALFORMATIONS

Premature birth has appeared as one of the ten leading causes of death in Minnesota for a number of years. During 1949 congenital malformations entered the picture as the tenth leading cause of death in the State. The appearance of congenital malforma-tions in the leading causes of death apparently resulted from the rapid decline in the number of deaths attributed to tuberculosis, formerly in tenth place and the increase in the number of live births in recent years. There has been no appreciable increase in the congenital malformation death rate during the past two decades. The rate has varied between 4.6 and 6.5 per 1,000 live births since 1930. Slightly more than 80 per cent of all deaths due to congenital malformations occur within the first year of life. Over 93 per cent of the deaths attributed to premature birth occur within the first week of life.

Because of the importance of prematurity and con-genital malformations in the infant death picture, the Division of Vital Statistics, under direction of the Di-vision of Maternal and Child Health, is conducting studies relating to these two causes of death. The new birth certificate form, adopted in Minnesota at the be-ginning of 1950, affords basic statistical information for this study. Weight of the child, weeks of gestation and the presence of congenital malformations are the basic items being studied. Information regarding the existence of congenital malformations for all births has been made available for the first time during 1950. All information contained in the medical portion of the birth certificate is confidential in nature. It is used for statistical purposes only. When certified copies of the birth record are issued, the medical portion of the record is not filmed. It is vitally important that physicians and others completing the birth records understand this fact clearly.

Information being tabulated at the present time according to weight include:

- 1. Color of the parents
- 2. Single or multiple births
- Attendant's specifications regarding full terms or prematurity
- 4. Birth order of the child
- 5. Presence or absence of congenital malformations

The birth data are tabulated in weight intervals of one pound except for the five-pound interval which is divided between five pounds, eight ounces and under-five pounds, nine ounces and over. Infants weighing ten pounds or more are tabulated as a single interval. Special studies will also be made regarding the survival rate of infants reported to have congenital malformations.

The aim of the present study is to obtain as accurate a picture as possible of the premature and congenital malformations problem existing in Minnesota. The study will be extended for a number of years. Its value is de-pendent largely upon the care and accuracy with which the birth records are completed by the attendant. Special appeals are being made to physicians and hospital groups to give careful attention to the statistical section of the birth record.

Minnesota Department of Health Division of Vital Statistics J. W. Brower, Acting Director

PRIMARY INTESTINAL ANASTOMOSIS

I. S. RAVDIN, M.D., and WILLIAM DeMUTH, JR., M.D. Philadelphia, Pennsylvania

FEW surgeons have contributed as much to our knowledge of the pathologic physiology of gastrointestinal disease as has Owen H. Wangensteen. To him, and to those who have worked with him, American medicine is indebted for innumerable contributions which have extended our knowledge of a wide variety of gastrointestinal disorders. Among the most important of these contributions was the work from his clinic on the importance of relieving gastric and intestinal distention by intubation without recourse to operation. It was not Doctor Wangensteen's fault that many surgeons failed to heed his admonitions regarding the necessity of early operation when signs of gangrene were present, or when intubation failed to provide significant relief from serious symptoms. These faults can be ascribed to the frailities of man, and our profession is not free of them. Intestinal intubation, as introduced by him and extended by T. Grier Miller and William Osler Abbott, has reduced the morbidity and mortality of many diseases and procedures which the surgeon daily encounters in his work.

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Our initial experience with long-tube intubation in the management of small and large bowel lesions was reported by Abbott and the senior author⁵ just a decade ago. At that time twenty-six primary anastomoses of small and large bowel had been done without the use of surgical proximal decompression procedures. A death from coronary occlusion represented the only mortality in this group.

Our enthusiasm for this method has not lessened since that time. The results during the past decade lead us to believe that resection and primary anastomosis has proven to be a safe operation in many patients requiring excision of segments of the small or large bowel. Prior to 1946, however, primary anastomoses following resections, especially for large bowel lesions distal to the hepatic flexure, were done relatively infrequently in this clinic.

During the past five years there has been a steady and marked increase in the number of primary anastomoses following bowel resection, regardless of location of the lesion. Ileocolostomy, without exteriorization procedures, in by-passing unoperable large bowel cancers, has likewise become much more common. Strangulations secondary to volvulus, mesenteric thrombosis and obstructed hernia, certain instances of intussusception, obstruction due to adhesions, isolated inflammatory processes, malignancies, and traumatic injury, when found in the small bowel, are all lesions which, we feel, are in general best treated by resection and primary anastomosis. The marked electrolyte disturbances secondary to large losses of intestinal fluids are thereby obviated, and the time required for secondary anastomosis is saved.

This approach has resulted in a lower morbidity and a need for fewer hospital days for patient care. In most instances when simple obstructions, partial or complete, are present which require a resection, we now find it possible to do a primary anastomosis following resection of the involved bowel. Constant suction internal drainage makes this not only feasible but safe. An understanding of the pathologic physiology of bowel distention leads to a rational program of treatment. Wangensteen,8 in his excellent monograph on "Intestinal Obstructions," discusses the ramifications of the effects of distention and states ". . . the mechanistic conception of the ill consequences of obstruction provides better interpretation and a more acceptable explanation of the phenomena and end effects which attend bowel obstruction than does the toxic absorption theory." Whether one agrees with this statement or not, distention is all too frequently the motivating factor initiating a train of events which results in death. The control of distention is the clue to successful preparation of the bowel for primary anastomosis. The integrity of the anastomosis depends upon the condition of the wall of the obstructed bowel which has or has not been well prepared preoperatively. The dilated, grossly dirty bowel hav-

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ing a poor blood supply provides poor material for a successful anastomosis.

If primary anastomosis is to be safe without proximal external drainage, marked degrees of distention must be avoided. By using the long intestinal tube to prepare the bowel preoperatively, and to protect the suture line postoperatively, we believe that staged operations are no longer necessary in many cases which heretofore have been so treated. Cecostomy, appendicostomy, colostomy, and enterostomy are being used less and less by us, either before or at the time of operation. Even in patients with a high-grade partial large bowel obstruction we are doing more primary resections and anastomoses than proximal colostomies. This trend is reflected in the results of the survey made by Rankin4 in which only 30 per cent of a considerable number of surgeons questioned employed appendicostomy, cecostomy, or colostomy regularly either before or at the time of resection of the distal colon or rectum.

Preoperative Preparation of the Obstructed Patient

In suspected strangulated obstructions, shock, if present, is immediately combated by the use of blood and plasma while arrangements for early operation are being completed. The administration of sedatives must be attended by considerable caution. The marked colicky pain often associated with high-grade obstruction may lead one to use opiates excessively. Pain stops when decompression is adequate, and its presence casts suspicion on the fuctioning of the tube. If shock is present, delayed absorption of the drug may give late marked depression of the central nervous system and of respiration. The exquisite tenderness so frequently present in strangulation obstruction may be so lessened as to result in an unfavorable delay in operation in the belief that a simple obstruction is present. Once the general condition of the patient is rendered sufficiently good to stand a surgical procedure, the operation should not be delayed. If such response is not prompt following the infusion of blood or plasma, one should not further delay operation, since not infrequently release of the obstruction is the only thing which will result in improving the patient's condition.

A scout film of the abdomen is made as soon after admission as possible to determine the approximate site of obstruction. Localization of the lesion will in the majority of instances be made by correlation of roentgenographic findings, history and physical examination.

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Intubation.—The Miller-Abbott tube is then passed into the stomach and the stomach emptied by aspiration. By using 3.0 c.c. of mercury in the balloon of the tube and by placing the patient in the right lateral decubitus position, we have been successful in getting the tube beyond the pylorus in a high proportion of obstructed patients. Fluoroscopy is a great help. Those with high-grade small bowel obstruction are not infrequently difficult to intubate. After the tube enters the duodenum, constant suction is applied, and the balloon is inflated to effect passage of the tube toward the point of obstruction. When the obstruction is reached, the balloon is deflated.

The relief of distention preoperatively serves a twofold purpose. The general condition of the patient is frequently dramatically improved, and the local improvement in the bowel wall makes the possibility of a definitive procedure much more likely at the time of operation. Van Zwalenburg's⁷ conclusions concerning the vascularity of distended bowel are still valid, and if primary anastomoses shall heal without leaking, the blood supply to the involved segments of bowel must not be compromised. The danger of leakage at the relatively weak suture line with increased intraluminal pressure is a real one.

If, as occasionally occurs, the long tube does not function, we do not hesitate to replace it by a Levine tube to facilitate decompression (Wangensteen and Paine.⁹) Our preference for long-tube intubation was set forth⁵ ten years ago. This method in our hands has been most satisfactory.

A competent ileocecal valve effects a closed loop obstruction if the obstruction is in the large bowel. The tube must enter the cecum if distention under these circumstances is to be relieved. The ileocecal valve often will not admit the tube, and operation is depended upon for relief of distention.

Cleansing of the Bowel.—D. F. Jones³ stressed the fact that an empty clean bowel was one of the best safeguards against postoperative peritoneal infection. If the local condition of the bowel permits one to delay operation for several days, we feel that mechanical cleansing and the reduction in the number of bacteria residing in the bowel can and should be accomplished. The program we presently employ requires five days immediately before operation.

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In cases of anticipated large bowel resection the patient is given an enema of tap water daily. Mild purgations in the form of milk of magnesia or magnesium sulfate solution are also used daily. A low residue diet is given through the day prior to operation. Sulfasuxidine, 0.25 gram per kilogram of body weight, is given by mouth daily in four divided doses. Two days prior to operation 0.5 gram of streptomycin is administered by mouth twice daily. The Miller-Abbott tube is passed forty-eight hours before operation, and the sulfasuxidine and streptomycin are administered by mouth with the Miller-Abbott tube in place. Studies6 of the bacterial flora of the large bowel carried out in this hospital before and after the administration of sulfasuxidine and streptomycin have been convincing, and we routinely employ these agents. We do not feel that the use of these drugs should supersede in importance the gross cleansing of the bowel.

Blood transfusions are given preoperatively as blood volume, hemoglobin, and serum protein determinations indicate.

Technique

Only general principles of operation will be discussed.

When dealing with malignancies of the large bowel, we believe that the wide mesenteric resection with wide resection of the involved bowel is mandatory. Gilchrist and David's² monumental study leaves little doubt concerning this.

Secondly, we prefer the open technique of intestinal anastomosis. We feel that the accuracy of apposition of the bowel ends is better with open anastomoses than with closed techniques and less bowel is turned in. A clean bowel affords little danger of peritonitis due to contamination at the time of anastomosis. The gross contamination incident to a leaking suture line is a far greater hazard.

In general, end-to-side anastomosis is used in the ileocolostomy following resection of the right colon. End-to-end anastomosis is routinely used following segmental resections in both the small and large bowel.

A double suture line technique is followed. Very fine chromic catgut is used for mucosal approximation, and an interrupted silk suture line is used in the seromuscular layer. Crushed tissue is excised, and under no circumstances is such tissue incorporated in the suture line.

Gentle handling of the bowel is mandatory. Great care must be exercised in preserving the blood supply of the bowel adjacent to the suture line.

Postoperative Care

Parenteral penicillin and streptomycin are used routinely prophylactically for at least four days. Continuous Wangensteen suction is applied to the Miller-Abbott tube until gas is passed by rectum (usually the third or fourth postoperative day). The tube is then clamped for a period of twelve hours during which time 30 c.c. of water per hour is given by mouth. If no distention results, the tube is then gradually withdrawn and clear liquids are permitted ad lib. If intestinal motility seems to be adequate, a soft diet is begun twenty-four hours following removal of the tube.

In general, blood replacement to compensate for blood lost at the time of operation has been replaced by transfusion of whole blood while the patient is on the operating table or within a few hours following operation. In the past two or three years we have tended to keep the daily volume of infused fluids to 2500 c.c or less. Sodium chloride intake is rigidly restricted. This is especially important in the aged. As Coller and his associates¹ have shown, it is easy to err in giving excessive fluid and salt in the early postoperative period with resulting serious complications. Ascorbic acid, vitamin K and the B-complex vitamins are given postoperatively during the period of parenteral feeding.

The majority of our patients are made ambulatory on the first postoperative day.

Results

In the five-year period between January 1, 1946, and December 31, 1950, exactly 394 intestinal anastomoses without external decompression were done. In all cases intestinal decompression was managed by means of the Miller-Abbott or indwelling duodenal tube with the application of Wangensteen suction drainage. No cases in which exteriorizations or obstructive type resections were done are included in this report. Thirty-eight of these patients were subjected to ileocolostomy as a side-tracking procedure in inoperable

TABLE I.

	1946	1947	1948	1949	1950	Total Number of Each Operation			
Right colectomy Heo-transverse colostomy	11	14	17	21	18	81			
Transverse segmental colon resection	7	5	9	13	6	40			
Left colectomy (and splenic flexure resection)	5	2	5	11	11	34			
Sigmoidectomy (segmental resection and anterior resection)	5	14	16	30	30	95			
Resection small bowel End-to-end anastomosis	15	23	22	23	23	106			
Ileo-colostomy and Ileo-sigmoidostomy	8	7	3	7	13	38			
Total	51	65	72	105	101	394			

lesions of the large bowel. In the remaining 356, resections were done with primary anastomosis.

Table I shows a distinct trend toward anastomosis without concomitant or preliminary surgical decompression or exteriorization procedures. In both 1949 and 1950 the total number of such operations was approximately twice those done in 1946. It will be noted that left-sided colon lesions are now being resected and the bowel ends anastomosed at the same operation with increasing frequency. In dealing with right colon lesions one-stage right colectomy with ileotransverse colostomy is the only procedure used in operable lesions. This has been the policy in this clinic since 1938.6 Whipple¹⁰ reported favorable results with similar management in such cases in 1940.

The number of small bowel resections has remained relatively constant year after year.

Mortality.—Sixteen patients (Table II) in this group of 394 died during the thirty days following operation (3.8 per cent). Postmortem examinations were obtained in nine of these cases. A leak at the line of anastomosis was established in but one case. This patient had had an anterior resection for a lesion low in the sigmoid colon.

Coronary occlusion, pulmonary embolism, uremia, bronchopneumonia, and cerebral thrombosis were named as the other causes of death.

The highest mortality occurred in those patients having small bowel resection following mesenteric thrombosis. Progression of the underlying disease has usually been responsible for death.

Two deaths in the ileocolostomy group occurred in patients in which widespread peritonitis oc-

TABLE II. OPERATIVE MORTALITY

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	1946	1947	1948	1949	1950	Total Number of Each Operation
Right colectomy with Ileo-transverse colostomy	0	0	0	0	0	0
Transverse segmental colon resection	0	0	0	0	0	0
Left colectomy (and splenic flexure resection)	0	0	0	0	0	0
Sigmoidectomy (segmental resection and anterior resection)	0	1*	1	1	0	3.2
Resection small bowel End-to-end anastomosis	1	0	5	3	0	8.4
Ileo-colostomy and Ileo-sigmoidostomy	0	1	0	1	1	8.0
		3.8				

*Patients in whom failure of anastomosis was found at autopsy.

curred due to perforation of the primary lesion. In another, extensive metastasis was responsible for death.

Discussion

There can be little doubt that the primary establishment of intestinal continuity, at the time of bowel resection is the ideal operation. This is so, however, only if function is rapidly regained and if morbidity and mortality are as low as with multi-stage operations. Saving the patient a second anesthetization and operation reduces the inherent risk. Our single death from peritonitis following the single stage resection demonstrates that in patients properly prepared infection from leakage is no longer a common cause of death.

The outlined preoperative preparation, we believe, is advantageous even when primary resection is not possible or even contemplated. The clean bowel possessing a good circulation is better handled in any operation deemed necessary at the time of laparotomy.

A few statements concerning the limitations of this method should be made. If there is ever any doubt about the presence of strangulation, prompt laparotomy is indicated. Acute colon obstructions with major proximal distention should not be so treated. Surgical decompression is necessary. In many such instances resection with anastomosis is possible, but in any case the removal of the segment of devitalized bowel should be the first consideration. Intubation will aid in the postoperative period. It will make the patient more comfortable and it will add to the safety of the operation.

Resection with primary anastomosis in the treatment of malignancies should never be done to permit of a limited excision of bowel and mesentery with the goal solely of re-establishing intestinal continuity. Our philosophy is in accord with that of Gilchrist and David, who so aptly stated2 that the point of discussion in treatment of large bowel malignancies should be, "Can you remove all the cancer?" and not, "Can you sew two ends of bowel together." However, the most extensive excisions above the lower sigmoid lend themselves to this procedure. Intraperitoneal lesions below the sacral promontory are treated by one stage abdomino-perineal resection.

Ravdin and Abbott,5 and Whipple10 and others have stressed the importance of experience in the successful management of the Miller-Abbott tube. The possible dangers must be recognized. The use of fluoroscopy in passing the tube beyond the pylorus, the proper adjustment of the balloon, and the interpretation of the results of suction drainage cannot safely be the responsibility of inexperienced personnel. Fumbling in the early stages of acute obstruction can make the difference between success and failure in the passage of the tube into the distal small intestine.

It is obvious that the concept of primary anastomosis embraces more than the accurate approximation of two bowel ends. Intestinal suctiondrainage, the use of chemotherapeutic agents, the infusion of blood and fluids, the correction of protein and vitamin deficiencies and the correction of electrolyte imbalances are all important adjuvants to complete therapy, and they have made possible a more direct and safe attack on lesions requiring intestinal resection and anastomosis.

Summary

Results obtained in the five-year period between January 1, 1946, and December 31, 1950, in 394 patients in whom primary intestinal anastomoses accompanied by intubation and suction drainage as the sole source of decompression are reported. Intestinal resections were done in all but thirtyeight of the reported cases.

The over-all mortality was 3.8 per cent.

Primary anastomosis following resection of bowel segments, or used alone in bypassing inoperable lesions, is a safe, rational procedure which saves the patient both time and prolonged incapacity. In the treatment of cancer it in no way modifies the radical approach to the eradication of the disease.

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WORLD HEALTH ORGANIZATION

More than 250 fellowships will be awarded this year by the World Health Organization to medical and al-lied personnel throughout the world for advanced study.

Technical and teaching personnel from WHO member states with at least two years of experience in the field in which the fellowship is sought are eligible for the WHO awards. Applications are made to WHO through the applicant's government.

The World Health Organization has already awarded pproximately 800 fellowships in a variety of fields. These include, for example, public health administration,

communicable diseases, nursing, maternal and child health, internal medicine, and surgery.

The Pan American Sanitary Bureau, Regional Office of the World Health Organization, awards from its own budget, additional fellowships for public health trainees in the Americas. During the past year the Bureau granted some thirty-five fellowships for studies extend-ing from several weeks to a full academic year. This is in addition to the financing by the Bureau during 1950 of shorter-term training courses for more than eighty men and women in serological laboratories and a public health nursing workshop.

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PROGNOSTIC FACTORS IN COLONIC MALIGNANCY

CLAUDE F. DIXON, M.D. Rochester, Minnesota

WAS delightfully overwhelmed when your secretary asked me to take part in this meeting honoring Doctor Wangensteen. I should like to think that the invitation to participate in the program this evening was extended because you, in some manner, consider my ability as a surgeon on a parity with that of the honored guest. But, since this is not true. I must deflate my ego and realize that I am here because Owen Wangensteen has been my esteemed close friend for twentyfive years. What greater honor could I ask?

Upon his return from the Western Surgical Association meeting in Denver in 1931, the late Dr. E. Starr Judd informed me that the outstanding presentation at that meeting was a paper by Doctor Wangensteen in which he reported three cases of mechanical obstruction of the bowel successfully decompressed by means of nasal catheter suction-siphonage. We are all familiar with the great advances that have stemmed from this epochmaking work and the devices Wangensteen has developed for the management of obstruction of the bowel. We are aware too of the value of the Wangensteen tube in the preoperative and postoperative patient. It must be a constant satisfaction to Dr. Wangensteen to realize that the procedure he advocated and carried out twenty years ago has world-wide acclaim to this day.

On this occasion I have chosen to discuss prognostic factors in colonic malignancy.

It is timely, I feel, to mention here that Wangensteen's contribution on the management of intestinal obstruction might have passed into oblivion for the reason that almost all of our national medical journals turned down his early manuscripts on the subject. Perhaps they were too lucid and therefore were returned as "not of general interest." But Owen was firmly convinced that he had found something of value, and today even editors of medical journals recognize his outstanding work on intestinal obstruction as well as in many other fields.

The past two decades have witnessed great advances in the prognosis of carcinoma of the colon from the standpoint of mortality, morbidity and five-year survival. Although some advance has been made for the cause of earlier diagnosis of malignant lesions of the colon through cancer detection centers, repeated pleas at medical meetings and writings in both the lay and professional press, the percentage of early cancers diagnosed still is too low. The simple diagnostic methods should be familiar to all. They are not new. Digital rectal examination of growths in the rectum was advocated six hundred years ago by Master John of Arderne with these words: "And thus shall ye recognize it. Ye shall put your finger in the rectum." Professor Strauss of Berlin invented and developed an electric sigmoidoscope a half century ago. Insufflating air into the colon after evacuation of the barium has been known and practiced for a quarter of a century. Neglect to perform these maneuvers by the physician is much too frequent, and every effort should be made to encourage physicians to follow the advice of John of Arderne.

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The medical profession cannot assume all of the responsibility for this failure of early diagnosis. The patient must initiate the process leading to the detection and treatment of cancer. King and Leach, of Memorial Hospital, New York, undertook to determine some of the "whys" of delay in seeking medical care. They found the greatest tendency toward delay among the following groups of patients: (1) patients whose established reaction to previous illness had been to seek medical advice only when having an acute discomfort or pain; (2) those who interpreted their illness as being a common illness or a recurrence of some previous illness (bleeding of hemorrhoids, and so forth); (3) patients whose chief attitudes toward medical care were fear of the examination, fear of knowledge, or fear of surgical intervention or of disfigurement; (4) patients who believed that their financial resources were inadequate to permit payment for medical care.

A long, painstaking educational process will be required to remedy these conditions. Experience

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Minnesota.

Read at the meeting of the Minnesota Academy of Medicine, Saint Paul, Minnesota, December 13, 1950. The assistance of Dr. John D. Rosin in the preparation of this paper is acknowledged.

has shown that prompt diagnosis and therapy will reduce morbidity and mortality. The debilitating effect of delay on the part of the patient can be overcome by an educational program which will make the prospective patient not want to delay.

We shall all agree that time remains the greatest single factor that influences the final result in the individual case of malignancy: the time between initiation and discovery of the malignant process, and the time between discovery and adequate removal of the lesion. At some time, regardless of the patient's age and heredity and the location, grade or type of malignant lesion, cancer of the colon for the most part is curable. Visceral cancer is a silent disease. The period necessary for the transformation of normal epithelial cells from a normal mucous membrane into malignant cells is not known. The length of time before invasive features cause the appearance of symptoms is variable, perhaps averaging about a year. If digital and endoscopic examinations are performed as a routine on every patient, a larger number of persons will come to operation when the lesions are silent and curable by surgical means. Seventy-five per cent of lesions of the colon and rectum are within reach of the finger and the sigmoidoscope.

There are certain prognostic factors peculiar to the patient. It is well known that patients in the younger age groups have a poorer prognosis as a whole than do members of the older age groups, regardless of the grade of the lesion. In the young the grade of the malignant lesion tends to be higher and metastases occur earlier. Many physicians are not on the alert for colonic malignant lesions in patients under the age of forty years, although 11.5 per cent of the malignant lesions of the large intestine seen at the Mayo Clinic between 1907 and 1938³ occurred under the age of forty years.

Associated colonic disease influences prognosis. In 100 per cent of cases of multiple polyposis of familial origin, if neglected, multiple carcinomas will develop, as a rule while the patient is still young, and with a most unfavorable prognosis. Multiple asynchronous primary carcinomas of the colon occur in 3 to 5 per cent of cases, indicating that a thorough exploration must be made at each laparotomy. With another disease of younger persons, chronic ulcerative colitis, carcinoma develops more often than for the population as a whole. Here also the outlook is poor.

The recurring visits of a patient who has been diagnosed as having a "tension state" or "anxiety neurosis" or as having an irritable bowel syndrome may lull us into a diagnostic lethargy, and we may overlook a developing malignant lesion of the bowel or diagnose it too late. Complete physical examination should be made at regular and definite intervals, in order to protect ourselves and to reassure the patient.

There is no advantage to obesity either from a social, economic or medical point of view. This applies also to obesity in cases of malignant lesions of the colon. Not only does carcinoma tend to spread faster if the patient is obese, but the presence of infection, even in a mild degree, makes the risk materially greater. Given the same pathologic process in two patients of equal age and otherwise equal chances, one finds that the obese patient presents a greater operative risk and has a poorer outlook from the standpoint of ultimate cure.¹¹

The older patients, in whom malignant lesions of the colon are most frequent, are in the same age span in which the degenerative diseases of cardiovascular and cardiorenal origin predominate. These concurrent conditions are of prognostic value when considering survival rates and operative procedures.

The findings of the surgical pathologist are of inestimable value when considering the prognosis in any individual case of a malignant lesion of the colon. Broders' classification of the grade of the malignancy and Dukes' classification of the extent of spread are wonderful aids in placing cases in categories. As a rule the prognosis is worse as we ascend the numerical grade of malignancy and descend the alphabet in extent of spread. Nevertheless there are a sufficient number of exceptions to these classifications to encourage one to undertake radical operations in the hope of salvaging some of the patients.

Venous penetration and perineural involvement are factors not diligently sought for by most surgical pathologists. When present, they foretell a very grave prognosis: 95 per cent of the patients concerned will succumb within five years. 12 These factors can explain the poor outcome in a case even though the lesion is small, freely movable, of low grade according to Broders' classification and of a favorable type of Dukes' classification.

The published studies on lymphatic spread of carcinoma of the left colon and rectum by West-

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hues in the early thirties have been corroborated and extended during the past two decades by the painstaking and meticulous study of pathological specimens by several reputable individuals and clinics.1,4-7 These special studies have confirmed the great importance of upward spread and have led to the proper evaluation of lateral and retrograde lymphatic involvement. The usual route of spread of cancer is by way of the lymphatics accompanying the superior hemorrhoidal vessels. The spread may be discontinuous, and involved nodes may be found many centimeters proximal to the lesion. Lymphatic spread more than 1 cm. distal to the primary lesion does not occur until proximal lymphatics are blocked, and in any case, distal spread is not extensive. Lateral spread, through lymphatics that course along the levator ani muscle and accompany the middle hemorrhoidal vessels, does not occur as a rule when the distal edge of the lesion is higher than 6 cm. above the dentate line.

The site of the malignant lesion is an important factor when considering the prognosis. In general, right-sided colonic malignant lesions have a better prognosis than left-sided lesions, both in cases with and in those without nodal involvement; in both groups the five-year survival rates show an average difference of about 10 per cent in favor of cases in which the lesions are in the right colon. It is the impression of many surgeons that the better prognosis of right-sided lesions is due to the fact that a right colectomy is routine for these tumors whereas segmental resection is employed for removal of left-sided lesions. A recent innovation is left colectomy for left-sided lesions. Time and statistics will determine whether this added surgical risk can improve the present mortality and survival rates.

True cecal lesions have a poorer prognosis than those occurring in the ascending segment. This has been interpreted on the basis that the resections for cecal lesions have not been as extensive as those for lesions in the ascending segment, that is, they have not been carried around to the midtransverse colon.

Both the hepatic and splenic flexures are blind spots for the average roentgenologist, and lesions located in these sites may not be detected even when roentgenologic examination has been performed after administration of a barium enema. If clinical symptoms indicate a lesion to be present, an exploration is warranted even if the roentgenograms are negative. The flexures are also more difficult to handle surgically than other segments of the colon because of the great tendency of lesions in these sites to infiltrate the stomach and other vital organs. Lesions of the transverse colon can be included in this last statement.

Tumors of the descending colon and sigmoid have a great tendency to produce obstruction, owing mainly to the smaller calibers of the lumina as compared with the caliber of the right colon. The poorer prognosis of obstructing lesions than of other lesions is well known.

Lesions of the lower two-thirds of the rectum have a poorer prognosis than those of the upper third of the rectum and lower sigmoid mainly because lateral lymphatic spread and local extension to the bladder, prostate or vagina make the disease difficult to eradicate surgically. It is for this reason that I have advocated and practiced radical posterior resection in the Kraske position following previous abdominal exploration and performance of a colostomy. With this operation a hysterectomy or prostatectomy can be done if necessary.

The tremendous advances in the preoperative and postoperative care of patients have demonstrated how important these clinical factors are to the prognosis. They were considered of such significance that many years ago a separate service was organized at the Mayo Clinic for the care and treatment of intestinal obstruction and colonic diseases, which was under the joint supervision of internists and surgeons especially interested in these conditions. This step alone materially favored the prognosis.

In the summer of 1931, Wangensteen began to emphasize the successful decompression of mechanical obstruction of the bowel by nasal catheter suction-siphonage, and a great advance in the preoperative and postoperative care of patients was founded. Malignant lesions of the colon, and especially of the left colon, are frequently accompanied by varying degrees of chronic obstruction and, on occasion, of acute obstruction. The greater the obstruction, the poorer is the prognosis. When there is complete obstruction, the five-year survival rate is twice as poor as when obstruction has not been present.10 When the ileocecal valve is competent, a closed-loop obstruction results and an emergency colostomy is the treatment of choice, although nasal suction is a valuable adjunct. Nasal suction has its greatest value in colonic surgery as a postoperative prophylactic measure to combat distention and to protect the anastomosis.

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The better understanding and appreciation of the physiology and biochemistry of the body fluid compartments, along with the rational replacement and control of the body electrolytes, have favorably influenced prognosis. The development of blood banks made the correction of anemia easier and enabled more extensive surgical procedures to be performed. The investigation of substances other than blood and plasma to combat shock is constantly being carried on at the Mayo Clinic. Such substances as dextran, periston and plasmoid have proved of value and probably will become other adjuncts to safer surgery.

The advent of chemotherapeutic drugs and later the discovery of antibiotics are the highlights of the past decade. During 1939 and 1940 the hospital mortality rate associated with operations on the colon decreased by more than 50 per cent, and this improvement in rate coincided with the first use of sulfonamide drugs in the peritoneal cavity. In 1942, sulfasuxidine was introduced and demonstrated that it was capable of reducing the bacterial content of the bowel many thousandfold. These earlier chemicals and antibiotic agents have now been replaced by better ones, and even better ones may be anticipated in the future. Dearing and Heilman have recently published results of a comparative study of various antibacterial agents on the intestinal tract in man. Their conclusions were that aureomycin and terramycin are superior to all others. At present we are using these drugs exclusively in the preoperative preparation of patients who are to undergo operations on the colon.

It is the summation of all factors determined preoperatively and at the time of operation, by both the surgeon and the surgical pathologist, that influences the surgeon's judgment as to what technique he shall employ and the extent of the resection indicated in the individual case. The size of the tumor exerts little influence on the ultimate prognosis. Of much greater importance in the eventual outcome is the degree of extension and penetration. Cases requiring extensive surgery have a mortality rate at least double that for cases in which the lesions are confined to their primary site.

The development of multiple-stage procedures for surgery of the colon was the result of necessity

to overcome the practically prohibitive mortality rate associated with colonic surgery. The three-bladed clamp and the defunctioning of the left colon by means of preliminary colostomy were great innovations. With the discovery and use of antibacterial agents the necessity for multiple stage procedures became less. One-stage operations for lesions of the colon have perhaps made more radical extirpation possible and with a reduction in mortality rate. A place for multiple-stage procedures in my opinion still is advisable under certain conditions such as obstruction, marked inflammatory reaction, unusual obesity or other technical factors which would make the operation unusually hazardous.

The experience and ability of the surgeon as prognostic factors are often lost sight of when considering the ultimate outcome of surgical procedures for malignant lesions of the colon. On the native skill, judgment and experience of the surgeon the operability or inoperability of the lesion will finally rest. The wider the experience of the surgeon, the higher will be the operability rate.

The improvements in preoperative and postoperative care of patients, the better understanding of the modes of spread of carcinoma and the more thorough training of young surgeons have permitted a broadening of the indications for radical surgical intervention and the development, revision and reintroduction of surgical technique which, it is hoped, will improve the prognosis of cancer of the colon even more.

In conclusion let me thank you for the invitation to take part in this memorable occasion.

When I think of Dr. Wangensteen and his indefatigable work in scientific investigation, his truly great mastery as a surgeon and a teacher of surgery, I cannot recall anything more fitting to his voluminous, invaluable contributions than a remark made by Louis Pasteur: "In the field of science chance only favors the mind that is prepared."

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(Continued on Page 436)

PULMONARY AND EXTRAPULMONARY TUBERCULOSIS WITH A DISCUSSION OF THE HOST RESPONSE TO TUBERCULOSIS

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HE remarkable reduction of the death rate from tuberculosis from 200 per 100,000 in 1900 to twenty-six in 1950 has given many laymen and some physicians a false sense of security and a belief that tuberculosis is no longer a disease of major importance. Although now standing as seventh or eighth among the causes of death in the United States, it is the number one cause of death from infectious diseases and remains the chief cause of death in all individuals between the ages of fifteen and thirty-seven. Recent statistical studies have shown an actual increase in the number of clinical cases while the death rate was declining.4 This increase is probably more apparent than real and has resulted from the application of mass survey methods to case findings. However, there has been an increase in the percentage of tuberculin reactors among American soldiers who have been overseas and among recent emigrants from Europe.8

The tuberculosis problem is no longer the exclusive headache of the sanatoriums and special clinic physicians but has become the headache of every internist. Data obtained by doing a routine x-ray on every patient admitted to a general hospital have been compiled from six widely scattered hospitals and reveal a rate of 1.1 per cent of active cases or a calculated total of 40,000 undiagnosed cases each year in the general hospitals of the U.S.A.1 Then patients who present symptoms that simulate a great variety of infectious, neoplastic and functional diseases are difficult to diagnose; and it is obvious that many are not diagnosed sufficiently early to be saved by the new treatment with streptomycin or para-amino salicylic acid.

A brief review of the physiological and pathological reactions of the body to the tubercle bacilli and its products should make somewhat easier the task of the internist. The tubercle bacillus produces neither endotoxin nor exotoxin; therefore, the primary reaction of the tissues to the primary invasion of tubercle bacilli is purely a mechanical one to an inert foreign body. The nonspecific mechanical and humoral mechanism is efficient in eliminating saprophytic acid-fast Mycobacteria. The avian type of tubercle bacillus is almost always destroyed, and the bovine bacillus is somewhat handicapped; although it is not clear how much of the destruction of the latter two is nonspecific and how much is the result of the development of a low grade but definite humoral immunity.

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The human type of bacilli finds a suitable environment for growth and multiplies at a relatively rapid rate for several weeks. During this period of unhindered growth the bacilli are carried by mechanical means, largely in polymorphonuclear cells and monocytes, to the regional lymph nodes and on through the entire lymphatic system to the thoracic duct, the heart, and out to the remainder of the body through the general circulation. The lymph nodes act as mechanical filter beds and those nearest the point of primary invasion will show the most enlargement. Thus, we expect enlarged hilar lymph nodes when the primary is in the lung, neck nodes from an infection through the tonsils, mesentery nodes from a primary through the intestine and local superficial nodes from any point on the skin. The degree of enlargement varies with the age of the patient and the quality of innate resistance. In children, it is the rule for the nodes to enlarge to a degree which is easily detectable by physical or roentgenographic examination, and in general the larger the regional lymph nodes the worse the prognoses. In adults it is the exception, rather than the rule, for the lymph nodes to be enlarged sufficiently to be detectable clinically. During the past twenty years, we have seen only three students who developed easily detected lymph nodes following the conversion of a negative to a positive tuberculin. As in children, the larger the lymph nodes, the worse the prognoses. Although the percentage of adults who develop clinically detectable lymph nodes is

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small, the total number is not insignificant, being about as frequent in a general hospital as lymphomas of the Hodgkin's type and exceeding in number such well-known conditions as hemochromatosis and Addison's disease.9 About onehalf of the patients with progressive primary tuberculosis have palpable spleens. These patients with or without enlarged spleens are usually incorrectly diagnosed as neoplasia, Hodgkin's disease, aplastic anemias, histoplasmosis, or coccidioidomycosis. Unfortunately, as the amount of tuberculosis infection in the general population decreases, more and more individuals will become adults before they receive their primary infection, and we may expect an actual numerical increase in the number of patients with progressive primary infections in our general hospital wards.9 Before the discovery of streptomycin, the diagnosis in this type of case was purely an academic exercise, but now the difference between recovery and death may depend upon an early diagnosis and prompt treatment.

A second phase of the primary infection of clinical significance is the period of dissemination which begins when the rapidly growing bacilli escape from the lymph barriers and drain into the general circulation. Microscopic embolic foci of bacilli are trapped in the brain, bones, bone marrow, liver, spleen, kidneys and other organs and form the seed from which extrapulmonary tuberculosis develops over the succeeding years. This phase of dissemination is brought to a close after a few weeks by the development of a low grade but definite degree of humoral immunity which is nearly always accompanied by an allergy to tuberculin. There is a difference of opinion as to which of the two mechanisms is more important in reducing if not completely eliminating the dissemination of bacilli. Many investigators believe that the immunity is the result of the allergy. On the other hand, Rich⁶ has presented considerable evidence for the belief that immunity and allergy are two entirely separate and distinct phenomena and that allergy is essentially a harmful reaction. One of the complications involved in the problem was the difficulty in demonstrating the presence of humoral antibodies. The ordinary humoral antibodies such as agglutinins, precipitins and complement-fixing antibodies could be demonstrated in experimentally infected rabbits but rarely in patients with active tuberculosis and almost never in patients with early minimal infection. The new serologic method introduced by Middlebrook and Dubos⁵ and modified by Smith and Scott^{7,8,10} detects antibodies to tuberculin or more specifically to the carbohydrate complex⁵ of the tubercle bacillus. It has not been demonstrated that this antibody is a protective antibody but it occurs in patients who have had a recent subclinical infection. as shown by a conversion from a negative to a positive tuberculin reaction, and in most students who have received a BCG vaccination. At least 95 per cent of active incipients and moderately advanced cases have these antibodies in their serum. but cases of tuberculous meningitis and progressive cases of far advanced tuberculosis are usually negative. Thoroughly arrested cases also are usually negative. In a period of months or years after a spontaneous conversion the antibodies disappear while the tuberculin persists. After BCG inoculation the antibodies often persist when the tuberculin test has become negative and in a few instances antibodies have appeared in good titers although the tuberculin test never became positive. Of practical importance is the observation that the tuberculin reactions may induce the appearance of antibodies in patients who had none before the skin test was performed.10 This irregular behavior lends support to Rich's view that allergy and immunity are different and independent phenomena although both are induced by the tubercle bacillus.

With the appearance of allergy, and the accompanying low grade immunity, dramatic changes occur in the tissues which are reflected in the clinical course of the disease. The local multiplication of bacilli in the tissues is checked and many organisms disappear. But with allergy comes inflammatory reactions which frequently go on to necrosis of tissue and caseation. Tubercle bacilli and tuberculin are no longer inert substances but become highly toxic materials for the "sensitized tissues" although still harmless for the uninfected. The local reactions are redness, swelling, pain and the constitutional reactions include fever, rapid pulse, malaise, anorexia and loss of weight. Laboratory studies show an increase in the sedimentation rate, an increase in the percentage of polymorphonuclear cells, with a corresponding reduction in the percentage and total number of small lymphocytes. The large lymphocytes and monocytes may remain normal but are frequently increased. The constitutional symptoms are in effect the result of a systemic tuberculin reaction and can be duplicated in a thoroughly arrested healthy patient by the subcutaneous injection of a small amount of tuberculin. One of the objects of rest in the treatment of tuberculosis, both the general rest in bed and the surgical measures resulting in localized rest, is to reduce the amount of tuberculin which is absorbed from the local lesions.

Other peculiar characteristics of tuberculosis are the slowness with which resolution occurs and the extensive development of fibrosis in the lesions. The fibrosis may be interpreted as a response to the local tissue necrosis caused by local tuberculin reactions. Some of the slow resolution may be explained by the persistence of tubercle bacilli in the lesions. Tubercle bacilli, in contrast to pyogenic cocci, frequently live for years in the local lesions. But caseous lesions do persist for years after all the bacilli are dead. Tubercle bacilli synthesize in vitro and presumably in vivo unsaturated fatty acids, which are supposed to inhibit the natural autolytic enzyme systems which liquefy the infiltrates in ordinary pyogenic pneumonias. Therefore, the chronicity of tuberculosis can be explained in part by the persistence of bacilli in the lesions and in part by the difficulty the body has in autolysing and eliminating the granulomatous and caseous product of the reaction between the sensitized tissues and tuberculin.

It is very easy to demonstrate in animals the difference between a primary infection and reinfection. The reinfected animal, whose tissues are already sensitized, shows marked constitutional symptoms within a few hours after reinfection; pneumonic lesions appear in twenty-four hours and large areas of caseation can be found in ten days. More destruction is produced in the lungs and cavity formation is more common, healing by resolution is less complete and more scar tissue residues are left.2 In animals and in man there is very little if any gross involvement of the lymph nodes in reinfection tuberculosis and the spleen is almost never enlarged. Theorectically, there should be no difference between a primary infection and a reinfection after the tuberculin test becomes positive because the tissues after this time are "sensitized" and react specifically to tuberculin. Practically it is impossible in many cases in adults, even with the knowledge of a recent conversion of a negative to a positive tuberculin test, to detect any difference between the xray lesion symptom or clinical course of a primary and a reinfection tuberculosis. In these instances there has been no gross infection of the lymph nodes with the primary invasion but the tissues have been sensitive so when tubercle bacilli again reach the lungs the allergic destructive type of lesion occurs. However, I cannot agree with the clinicians, who now constitute a majority, who teach that there is no point in trying to differentiate between primary and reinfection tuberculosis because they all behave alike. Those adults who do develop detectable lymph node enlargement following the primary have more extensive disease and a much worse prognoses than either the primary without detectable lymph node lesions or the classical reinfection syndrome.

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There is a difference of opinion about the source of reinfection tuberculosis. Everyone agrees that primary tuberculosis is exogenous in origin and in most cases is inhaled into the lungs. Some, perhaps the majority of clinicians, believe that reinfection tuberculosis is also exogenous and breathed in with the air. The minority of clinicians and nearly all pathologists believe that reinfection tuberculosis is endogenous and reaches the lungs from residual caseous lymph nodes left by the previous primary. I am among the minority of clinicians who believe in endogenous reinfection.

This problem is not entirely academic, since the success of BCG vaccination in preventing reinfection tuberculosis, is dependent in a large measure on which theory is correct. If the exogenous theory is correct, then BCG vaccination can give no better protection than a spontaneous subclinical infection, which results in a positive skin test. If most clinical tuberculosis is endogenous reinfection from caseous lymph nodes left by the primary, then BCG may produce sufficient immunity to prevent completely the infection of the lymph nodes when fully virulent bacilli are subsequently breathed into the lungs. We favor BCG inoculation for medical students, nurses, and hospital attendants but not for the general population in the country.

Tuberculosis is characteristically a relapsing disease. This is not difficult to understand when we realize that viable bacilli may remain dormant for years in relatively insignificant lesions but will become active again when the physiological balance is upset by (1) unusual physical exercise, (2) poor diet, (3) intercurrent infections, or (4) psychic strains of various types. The recent at-

tempts of the thoracic surgeons to cure active, moderately advanced tuberculosis by excising the lobe or lobes which contain the major foci were in most instances disastrous because the small, fresh, but apparently harmless lesions in the other lobes became active and spread throughout the lungs.

Mechanical factors play a large part in the course of tuberculosis. A small lesion in the lungs which becomes caseous and ruptures into a bronchus is rarely serious. A lesion of the same size rupturing into a pulmonary vein results in miliary tuberculosis or one in the brain causes meningitis and miliary tuberculosis. A moderate sized or large lesion in the lung may become caseous but be surrounded by a dense fibrous envelope which prevents the escape of tubercle bacilli and remains a relatively benign tuberculoma. Another caseous lesion of the same size empties its contents into a bronchus and becomes a cavity. The inner wall of the cavity then becomes an ideal place for the multiplication of enormous numbers of bacilli. There is an adequate supply of free oxygen from the bronchus, unlimited food from the serum tissue juices which drain into the cavity and no accumulated waste products to slow multiplication of the bacilli since their products are being continually expectorated in the sputum. The spread of the disease to other parts of the same lobe and to other lobes is most often by mechanical aspiration. The treatment directed toward the closure of cavities is also mechanical. The granulation tissue in the wall of the cavity becomes fibrous tissue which contracts until the cavity is closed unless the process is prevented by other mechanical factors. Rest in bed allows the diaphragm to rise, reduces the pulmonary volume, relaxes the lung and favors cavity closure. Crushing the phrenic nerve, pneumothorax and thoracoplasty are all mechanical processes which relax the lung all favor the fibrous tissue which is trying to close the cavity. Under other conditions scar tissue becomes a liability rather than an asset. Multiple small areas of disease, which caseate but do not excavate, stimulate the formation of fibrous tissue which in contracting may rupture alveoli and destroy the function of the healthy lung.

Although hemorrhage occurs in one-third of all patients with pulmonary tuberculosis, it should be regarded as a mechanical accident. Usually blood vessels are sclerosed by the tuberculous disease before they are eroded. Occasionally the ulcerative process cuts a vessel before it is sclerosed and

hemorrhage occurs. If a large pulmonary artery is eroded, the patient dies within a few minutes of an exsanguinating hemorrhage. Fortunately, this is extremely rare. The chief danger of pulmonary hemorrhage is not the loss of blood but the mechanical spread of the disease to other lobes during the hemorrhage.

Pleural, pericardial and peritoneal effusions result from a combination of mechanical and immunological factors. A small lesion ruptures through to a serous surface and an effusion results if the patient has a sufficiently high degree of sensitivity to tuberculin. There is, however, a partial desensitization following the formation of fluid so the tuberculin skin test may be temporarily depressed but returns to or near its former level after the absorption of the fluid.

Streptomycin and PAS (para-amino-salicylic acid) are now accepted as useful agents in the treatment of certain types of tuberculosis. The German drug, TB 1, is much more toxic than streptomycin and PAS and should be used cautiously and only in cases with organisms which are resistant to the other agents. Neomycin is about as effective as streptomycin and works on organisms resistant to streptomycin, but unfortunately produces damage to the kidneys. Viomycin has been used on only a few streptomycin resistant cases. The results were encouraging but there was in some instances a reduction in the calcium and potassium of the blood with the development of tetany.

Streptomycin is definitely superior to PAS. The advantages of oral administration of PAS is almost counterbalanced by the difficulty which many patients have in retaining the drug without digestive disturbances. Tubercle bacilli become resistant to both drugs in a period of twenty to 120 days. The simultaneous administration of 1 gram daily of streptomycin and 8 to 12 grams of PAS about doubles the period of effective treatment before resistant forms appear. Streptomycin has proven most effective in the treatment of tuberculous laryngitis, tracheitis, bronchial tuberculosis, intestinal tuberculosis, and multiple sinuses in the subcutaneous tissue. Acute tuberculous pneumonia and recent bronchogenic spreads often respond in a dramatic fashion. Temporary dramatic improvement in miliary tuberculosis is seen often but the relapse rate is high leaving a respectable residue of 30 to 40 per cent which have apparently recovered. In such desperate cases the dose of

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streptomycin is high-2 to 3 grams daily-and vertigo and partial deafness frequently results. Intrathecal streptomycin in 100 microgram doses is used in tuberculous meningitis-daily at first and then at longer intervals as the cells in the spinal fluid decrease.

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Streptomycin and PAS are of very little value in the ordinary fibrocaseous type of pulmonary tuberculosis. Patients with cavities, particularly, get little benefit from the drugs because the organism rapidly acquires resistance in a few weeks. In general, streptomycin and PAS should be regarded as a supplement to and not a substitute for the standard methods of treatment. They should never be given as the ultimate and definitive treatment but only as a part of a planned course of treatment which usually includes sanatorium residence or some form of surgery. They should not be given to ambulatory patients or patients staying in their own homes except under most unusual conditions.

ACTH produces dramatic but apparently only temporary improvement in patients with tuberculosis.18 Within two or three days the temperature is normal, the tuberculin test becomes negative and laryngeal lesions show evidence of healing. But when the drug is discontinued the laryngeal lesions relapse, the fever becomes higher than before treatment and the pulmonary lesions may spread. The combination of ACTH and streptomycin is now being investigated. It is probable that ACTH will be found to be useful when used in the proper dose and in the proper combination with other agents.

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THE PRIVILEGED FEW

The lie persists and millions of people still believe that capitalists are a privileged few. What makes this lie especially dangerous is that the misguided millions who have accepted it so readily as a fact, are by no means willing to accept it as an unalterable economic condition. Many of them desire actively to do something

They argue, truthfully, that industrial wealth stems initially from the God-given natural resources with which our nation has been so richly endowed; and they insist, quite plausibly, that the basic industries which transform those precious raw materials into useful end products, should belong to the people . . . not just to the privileged few!

I would go even further. I believe that all enterprise should belong directly to the people, and I hope that the day will come when every American family will pur-chase a share of American industry, however small or large that share may be,

That, to me, is true public ownership, and I favor it just as ardently as I oppose Government ownership. Let no one tell you that the two are the same. They are as far apart as the poles.

Today, American enterprise does belong to the people -to the people who have built it with their ingenuity and maintained it with their savings. I know of no other nation in the world where such vast industrial resources as ours are owned and controlled so extensively, and so directly, by the public. I do know of other nations, however, where the Government has seized the industries created by its people, and placed them under control of politicians and bureaucrats.

That, to me, is the antithesis of real public ownership. It is truly control by the privileged few!—Reprinted from March, 1951, issue of *The Exchange*, publication of New York Stock Exchange.

PROBLEMS OF RURAL MEDICAL CARE

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R ECENT dramatic advances in the prevention, diagnosis, and treatment of disease, coupled with more accurate analyses of these advances by the lay press, have served to stimulate and excite the imagination of the people of our country in matters of health. An additional important contemporary influence has been the development of a social philosophy which argues, among other things, that first-class medical care should be available to all citizens under all circumstances. It seems clear that today most people, with rare and unfortunate exceptions, fully accept the principle that the availability of health service is a necessity, not a luxury. This expansion of interest in health services has stimulated the thinking of persons of all groups and in all geographical areas, and this applies particularly to rural and farm groups.

The past twenty years has seen the intensive development of specialization in medicine and in a large measure at the expense of general or family practice. It is not proposed here to argue the merits of specialization except to state that we must somehow get back into our medical thinking the point that it is just as important to have skilled family practitioners who can evaluate the total patient in his environment as it is to have highly skilled technicians who should in effect be only technical consultants. In other words, it is perhaps just as important that the total picture of the physical and emotional needs of the patient be studied through the low-power, wide-angle lens of the family practitioner as it is that certain parts of this patient be studied through the very circumscribed and highly magnified field of the oil immersion lens of the specialist. Suffice it to say, however, that the specialist is almost always attracted to the larger urban areas where are logically located the great medical centers, or at least substantial technical facilities, and other specialists. The rural practitioner is perforce the family or general practitioner. Any pattern which directly or indirectly reduces the production of men interested in general practice will inevitably reduce the flow of practitioners to rural areas. This is an extremely important consideration because well over 40 per cent of our citizens are designated as rural citizens and a system of medical care which is not designed to provide them equally adequate service is in effect a good system of care for little more than half the citizens of our country. The rural family should be entitled to just as good medical care as their urban neighbors. Techniques to provide such care must be continually explored and tested.

Before exploring possible ways of attacking this problem, it is important to evaluate the thinking of people of the rural areas themselves. We in the medical profession, be it in the medical schools or in practice, have fallen down badly in attempting to explain to the people some of the problems involved in providing good medical service and, perhaps more importantly, as regards rural practice, the meaning of good medical service in 1950 and the intelligent use of it.

Fifty years ago when rural roads were mainly mud roads and when the horse and buggy was the main means of transportation, twelve or fifteen miles represented a separation of an hour or more in time. This meant, for example, in a certain county the desirability of a relatively large number of appropriately located physicians. Today that same fifteen miles on all-weather roads with an automobile represents at most twenty or thirty minutes by car. That is to say, fewer physicians are today needed to handle any given geographical rural area. We must explain to the consumers of rural medical care that just because six particular towns in their county had doctors fifty years ago by no means suggests that that same number is needed today. They must be encouraged to think regionally, even in small areas, such as a part of a county. It is true that many citizens of small towns of one thousand people or less who are without physicians and who feel they are remote from medical care are in fact considerably closer to the office of a doctor or a hospital in terms of

Acknowledgment is made to the Journal of the National Medical Association in which this address was first published in September, 1950. The address is substantially that delivered by Doctor Murphy at the Rural Health Dinner concluding the Annual Meeting of County Officers of the Minnesota State Medical Association, March 3, 1951, Hotel Lowry, Saint Paul, Minnesota.

time than many inhabitants of the large cities of this country. Some reduction in the total number of physicians in rural areas in most states of this country over a forty-year period was to be expected and is quite logical.

The rural citizen too often regards his local physician of 1950, from the scientific point of view, as he did the family doctor of fifty years ago. This, in effect, leads to two things:

1. He will go to his local physician to have a cut bandaged or to get his throat swabbed but for anything more significant will go directly to the larger city. This, in effect, makes the local family practitioner nothing more than a first-aid man, and it is to be hoped that we are not today graduating from medical schools men who are content to be first echelon maintenance men.

2. Furthermore, the young physician settling in a small community by himself is too often driven away by continuing unreasonable demands on his time and energy so that he finds he is working twenty-four hours a day, seven days a week.

The young men and women who leave country practice for such reasons do it justifiably, and communities who do not learn how to utilize their medical service properly will not long keep it, or if they are able to keep it, it will be of an increasingly lower effectiveness. However, as one talks to residents of rural areas and representatives of farm groups, one finds in general that no one has ever tried to explain these relatively simple facts to them and, further, that when they are explained, their basic logic is accepted immediately. This is further proof of the inadequacy of positive lay education on the part of the medical profession.

However, it should not be inferred that we have resolved all of the problems of rural medical care. Such problems exist and they are real and require positive, progressive, and imaginative efforts for their solution. These efforts must emphasize co-operation because of the justifiable feeling that the challenge of the last half of the twentieth century will be as much integrating what we now have in all fields as it will be the further expansion of these fields. Integrated and co-operative effort is economical, not only in dollars and cents but also in time, and is certainly effective. Certain factors loom large in any consideration of rural medical practice.

The lack of tools to practice modern medicine,

i.e., hospital and equipment, has been one of the major items influencing young physicians against entering country practice. This is entirely understandable. We train our young men and women in modern hospitals with modern equipment and paint the picture of more and better techniques to come. Is it any wonder that they are then reluctant to go to areas where by virtue of the lack of facilities they are only capable of functioning at 50 per cent of capacity? Probably the greatest single influence designed to correct this deficiency has been the passage and implementation of the Federal Hospital Construction Act (Hill-Burton bill). All over this country, on a decentralized basis, modern well-equipped medical workshops are springing up. This-enlightened piece of federal legislation is an excellent example of how government can work with individual communities without compromising the integrity or depressing the initiative of the community. It is also proper and fitting that a higher percentage of these federal funds have been allocated to the lower income states because it is just those states where such facilities are most needed.

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However, the original Hill-Burton concept did not go far enough. The average physician will spend much more time working in and out of his office than in and out of a hospital. Therefore, the existence of a modern well-equipped office is also a sine qua non to first-rate medical service. The young physician of today on the completion of his internship or a period of residency training is in a much different position than his predecessor of fifty years ago. He has had a longer educational experience and is therefore, older and his expense has been greater. Capital equipment necessary to start practice at a high level is infinitely greater today and, finally, society has begun to recognize a basic biological fact, leading to earlier marriage.

What, then, is the picture of a high percentage of our young physicians desirous of entering practice, and just having completed their education? They are frequently in debt, in their late twenties, often married, with or without children, and facing the prospect of compounding their debts in order to equip themselves to carry out modern practice. They further must consider the acquisition of office space with no guarantee but only the prospect of an income to compensate for these factors. On the other hand, they see in the larger urban areas opportunities to enter practice

as associates or partners with already established doctors, with guaranteed income initially and no capital outlay. In effect we then have the situation of the young physician desirous perhaps of living and practicing in a small community but with certain serious problems, mainly financial, to be resolved at the same time that we find many hundreds of communities in which the income level is relatively high and who are anxious to do something in order to attract this physician.

The solution to this dilemna, which is working well in Kansas and other states in the nation, depends upon community initiative, which in turn depends upon medical stimulation and direction. Any town can build and equip a modern medical office or community clinic for between twenty and thirty thousand dollars. This facility is the magnet which draws the young doctor to the town and also guarantees that their doctor can operate at a high degree of efficiency, which is, of course, to the great benefit of the citizens. The money may be raised by bond issue, by private subscription, or by tax levy. Amortization agreements can be made with the young physician so that he may begin purchasing first the equipment and later, if it is mutually agreeable, the building itself. This community clinic may house one or more doctors, possibly a dentist, and would have laboratories, diagnostic x-ray facilities, and the like. In certain instances it would be highly desirable if the county health officer as well as the county health nurse or nurses had their offices in the same facility, in which event one could begin to really speak of a Community Health Center. In certain areas of the country where distances are very great and population sparse, a few hospital-type beds might well be built along with the clinic in order to handle emergency and obstetric cases. One envisages, therefore, at the front line the community clinic or health center backed up by the small rural hospital, which in turn bears a relationship to the medical center of the large city. We hear a great deal these days of "private enterprise" and "local and individual responsibility." Surely the community clinic concept represents local responsibility and enterprise in their purest forms and from such a concept both the consumer and producer of medical care are coequal beneficiaries.

One of the frequently repeated objections of the young physician to remote rural medical practice is the feeling on his part that he will become

"medically isolated." We hope that our graduating doctors have a sense of pride in their professional knowledge and ability and a sense of obligation to the maintenance of this ability. To mitigate against such feelings of isolation there must be developed on a broad, realistic and effective basis postgraduate programs, tailor-made not for some theoretical ideal but for realities. Such programs must include:

- 1. The so-called refresher-type courses usually held at a medical school or medical center, lasting from three days to a week, well prepared and well integrated.
- 2. Circuit-type courses in which medium-sized communities strategically located throughout a given geographical area are chosen as centers. Teams of physicians may then, monthly or oftener, go out on this circuit with up-to-the-minute prepared discussions of practical every-day therapeutic and diagnostic problems. Experience has shown that this method of carrying education to the busy practitioner is very effective, not only in terms of transferring practical information but also in academically stimulating him at frequent intervals.
- 3. Opportunities must be made particularly for men in general practice to return to the medical school or medical center at intervals of several years and for periods of time ranging from one to twelve months. This educational experience, which might be called "in-residence" as differentiated from "residencies" for specialities, should provide a minimum of didactic training, and a maximum of "laying-on of the hands" experience. Such opportunities should be available in all fields of medicine.
- 4. Residency training programs in the various medical specialities should be continued and strengthened, not quantitatively but qualitatively. Furthermore, the man who has had a general practice experience should certainly have as great an opportunity to enter such residency programs as the man who has just completed an internship.

If the above-mentioned techniques are carried out effectively, certainly the medical schools will be able to indicate to their graduating students that no matter where they practice they will not be far distant from the stimulating influence of continuation education.

One problem that remains as yet unanswered is

that of the quantity of production of doctors, nurses, and technicians of all types. It is clear that if we are underproducing the medical personnel, no technique, however attractive, will get enough people to all of the right places. On the other hand, it would be an equally serious and wasteful mistake to supersaturate this country with an excess. The answer to the question of shortage or excess is not clear to the author. Perhaps the answer lies approximately in the statement that there is now an over-all numerical shortage which, however, may soon be taken care of by the expansion of exisiting medical schools. In any event, a more precise answer may be available after the completion of certain major surveys now under way, particularly one on the problems of medical education being carried out jointly by the Association of American Medical Colleges and the American Medical Association and the broadgauge survey of the Brookings Institute.

It should be noted that some of the techniques described above are mainly possible only in an area of relatively high per-capita income. In such states, individual initiative and local enterprise are capable of bearing most of the load. In those areas of our country where per-capita income is below standard, it seems clear that government, be it local or federal, will have to take larger and more positive steps in both the provision of adequate facilities and, more particularly, in the possible subsidy of the health personnel neces-

sary to operate these facilities. No physician who subscribes both literally and morally to the Hipprocratic Oath and the American Constitution can deny the obligation of providing such fundamentals as adequate educational opportunities and first-class medical care to all people regardless of race, color, creed, or income status. It is high time for local and federal government as well as the members of the health professions to sit down and work out some of these problems on the principle that certain basic needs must be filled with the government providing aid only when local and individual responsibility cannot carry the full

There are today many young physicians in training who dislike the pressures and tensions of urban living. They would like to raise their children and cast their lot in smaller, more rural communities. Certain techniques to encourage them in their plans have been tried and found useful in various parts of the country. They require for their general implementation an understanding of the realities of modern medical practice on the part of both medical schools and the consuming medical people. They provide a great challenge to various segments of the health professions to demonstrate imaginative, thoughtful, and progressive medical statesmanship and, most of all, they provide both the producer and consumer of medical care with those conditions necessary for happy professional and social living.

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(Continued from Page 427)

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RHEUMATIC PNEUMONIA

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BECAUSE of the relative rarity of rheumatic heart disease in children terminating with a fulminating pneumonia, this case is reported in detail. Though existence of a specific rheumatic pulmonary lesion has been denied,⁵ a characteristic pathologic picture which occurs only with rheumatic fever has been recognized.

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The exact etiology of this pneumonitis is not known. It has been shown² to parallel the pulmonary histopathology seen in experimental and sulfonamide anaphylactic pneumonitis. Pathologically there have been described: 3-6

- Fibrinous exudates in the alveoli, which are sometimes transformed into hyaline pseudomembranes.
 - 2. Necrosis of the alveolar walls.
- 3. Arteriolitis, which resembles that seen in periarteritis nodosa.
- 4. Focal inflammatory infiltrates, which are chiefly mononuclear.
 - 5. Granulomas, or Masson bodies.

Clinically, two syndromes have occurred, fleeting, reversible pneumonia, without respiratory distress, 1-5 and suddenly developing, fulminating pneumonia, with severe dyspnea and cyanosis. 4-6 I have been able to collect eight cases of this severe rheumatic pneumonia from the literature (Table I). Case 4 is that of a three-year-old white girl who, after five attacks of febrile arthritis in two months, developed sudden dyspnea and a pneumonia. 5

Case 7 was a five-year-old white boy who became anorexic and feverish and then developed pancarditis and fatal pneumonia and expired in ten days.⁶ All of these reported cases were ultimately fatal, though Case 1 had three recurrences before death.

Radiologically the findings more closely resemble those of cardiac failure than those of pneumonia.¹⁻⁵

Report of Case

Case 9.—S. D. was a six-year, five-month-old white girl who was seen because of a pruritic rash on the body which developed about April 8, 1950, and changed

in character daily. She had never had any previous illness. There was no recent history of immunization or other injections. The father and mother were well. Six siblings were in good health. There was no family history of allergy or any chronic illness.

Examination disclosed a fairly well-nourished and well-developed child. There were large urticarial lesions generalized over the skin. There was no general glandular enlargement. Tonsils were red. Heart and lungs were normal. Liver, spleen, and kidneys were not palpable. Extremities were normal. She was given 400,000 units of procaine penicillin, 0.2 c.c. of 1:1000 adrenalin, and put on Elixir Benadryl, 2 drams three times daily.

She was again seen on April 18, when most of the urticaria had subsided. On May 9, she was seen with a temperature of 102° and acute tonsillitis. On May 11, she had developed a generalized rash. Examination disclosed an acutely ill, dyspneic, pale child who had large, angular, erythematous lesions of the body. There was no general glandular enlargement. Head and neck were normal. Eyes and ears normal. Tonsils were prominent. Heart rate was 160 with a gallop rhythm at the apex. No murmurs were heard. Lungs were clear. Liver, spleen and kidneys were not palpable. Genitalia were normal. Extremities normal. The impression at that time was rheumatic fever with erythema marginatum.

Accessory Clinical Findings.—Temperature was 105.° Electrocardiogram showed P-R interval 0.16; Q-T 0.32. P-1 was flat; QRS 1-3 low amplitude; T 2-3 depressed. Urine was normal. Hemoglobin 67 per cent; white blood cells 19,000; polymorphonuclear cells 76 per cent; lymphocytes 32 per cent. X-ray showed a dilated heart with possibly some pericardial effusion. She was started on penicillin and aureomycin.

On May 15 aspirin was begun in dosage of one grain per pound. Vitamin K, and ascorbic acid were also given.

On May 16 a systolic murmur was audible at the apex. The temperature varied from 99° to 103.6° By May 19 the heart rate had slowed to 100°, and she was not dyspneic. Bone marrow aspiration at this time showed only a granular cell hyperplasia. No L.E. cells were seen. Blood culture was negative. Tuberculin test was negative. On May 22 a presystolic murmur was heard at the apex. About May 22 she was taken out of oxygen, and from then on, even though she had some fever, she was able to lie flat in bed and was eating fairly well. On May 24 a diastolic murmur was first heard. She was given four small blood transfusions and seemed much improved. Sedimentation rate on May 26 was 45 mm. per hour.

On the morning of May 31, 1950, the ears and throat were normal, the heart tones were soft, and the systolic

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RHEUMATIC PNEUMONIA-TUDOR AND KLING

TABLE I. SUMMARIZED HISTORY OF CASES OF RHEUMATIC PNEUMONIA Modified from Seldin, Kaplan, and Bunting⁵, with additions.*

Case No.	Age	Sex	Previous Attacks of Active R.F.	Onset of R.F. to Onset of Pneumonia	Rapidity of Onset	Chill	Hacking Cough	Dyspnea	Pleurisy	Course	Result
1.	29	F	3	31% months	++++	0	+	++++	+	15d	D
2.	16	M	2	16 days	++++	0	+	++++	+	12d	D
3.	13	F	1	4 days	++	0	. +	+++	0	5d	D
4.	3	F	0	2 months	++++	0	+	++++	0	31d	D
5.	22	F	. 1	1 month	+++	+	+	+++++	+	40d	D
6.	16	M	1	10 weeks	+++	0	+	+++	0	12d	D
1.	23	F	1	8 months	+++	0	+	+++	+	8d	L
1.	25	F	2	12 months	+++	0	+	++++	0	7d	L
7.	5	M	0	4 days	++++	0	+	++++	0	10d	D
8.	19	F	1	1 month	+	++	+	++++	0	2d	D
9.	6	F	0	20 days	++++	0	++++	++++	?	4hr	D

*Cases 1 through 6—Seldin, Kaplan, and Bunting⁵

Case 7— Smith

Case 8— Nittono and Hoshiyama⁴
Kling and Tudor

and diastolic murmurs were decreased in intensity. The liver, spleen, and kidneys were not palpable. A few râles were heard in the hilar areas posteriorly. Temperature was 100.4 rectally. At 7:30 p.m. she was coughing continually and was cyanotic. At this time there was considerable consolidation of the right upper lobe with bronchophony and crepitant râles. She expired at 10:45 p.m.

Pathological Report.—The body was that of a somewhat undernourished but well-developed female child six years of age. There was no jaundice, petechiae, or superficial adenopathy. The chest and abdomen were opened in the usual manner. The entire bowel was a light gray color, only slightly distended, and there was no evidence of peritonitis. The liver weighed 1,050 grams and showed marked congestion about the central veins. The gall bladder was normal and the biliary ducts were patent. The pancreas appeared normal. The spleen weighed 85 grams and yielded abundant scrapings to the knife blade. Its markings appeared normal. Both adrenals appeared normal and showed no evidence of hemorrhage. The left kidney weighed 75 grams and the right kidney 80 grams. Their capsules stripped readily, leaving a smooth underlying surface. On section there was a well-demarcated cortex and medulla. The calices, pelves, and ureters appeared normal. The mucosa of the urinary bladder was normal in appearance. The uterus and uterine tubes were extremely small. The ovaries appeared normal.

Posteriorly, the right pleural cavity was obliterated by fibrinous adhesions and contained 40 c.c. of straw-colored fluid. The left pleural cavity contained adhesions in the apical region and 20 to 30 c.c. of straw-colored fluid was present. The right lung weighed 625 grams. The upper lobe was completely consolidated, and the middle and lower lobes, except for small areas at the respective inferior borders, were also completely consolidated. The lung appeared rubbery to the touch

and on section appeared dark purple. The left lung weiged 440 grams and showed a patchy consolidation throughout both lobes. The pericardial cavity contained approximately 30 c.c. of straw-colored fluid, and fibrinous adhesions were present between the visceral and parietal pericardium over the apex and left ventricle. When the adhesions were separated, a typical shaggy "bread and butter" appearance resulted. The heart weighed 240 grams. The right auricle and ventricle were markedly dilated. The musculature of the left ventricle was somewhat hypertrophied. The mitral valve was plastered to the endocardium and superficially exhibited a number of small, hard ridges, the largest of which measured about 2 mm. in diameter. The valve appeared reddened and the chorda tendioneae were somewhat shortened. The other valyes appeared normal. The thoracic and abdominal aorta was smooth and

Histologic Examination.—This revealed numerous Aschoff nodules in the interstitial myocardial tissue. There were also scattered foci of polymorphonuclear cells throughout the myocardium. The pericardium was diffusely infiltrated with inflammatory cells and the mesothelium was lacking. Sections of the mitral valve showed a diffuse round cell and polymorphonuclear cell infiltration. The lungs showed an intense exudative inflammatory reaction. Most of the alveoli were completely engorged with red blood cells and alveolar phagocytes, while a few were completely filled with polymorphonuclear cells. Many of the alveoli were filled with a fibrinos exudate which was often organized into fibrin plugs, and in some, hyaline pseudo-membranes were visible. The interstitial tissues contained infiltrates of mononuclear cells. A rather generalized arteriolitis was present. Occasional granulomatous foci were seen in the alveolar ducts. The interalveolar capillaries were intensely congested and the pleurae were

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OPERATING ROOM CHOLANGIOGRAMS

ARTHUR ZIEROLD, M.D. Minneapolis, Minnesota

OR many years surgeons have been plagued by postoperative biliary obstruction, due for the most part to stones overlooked and less often to biliary duct injury sustained in the course of operation. It has been almost everyone's embarrassing experience to note the occurrence of biliary colic and the development of jaundice after having but recently explored and presumably emptied the common duct. It has also been the misfortune of many of us to have removed the gall bladder and to have had the patient subsequently develop jaundice after having palpated and examined the common duct and satisfied ourselves that it contained no stone. Heretofore, the means at our disposal for examining the common duct before and after operation has entailed opening and exploring it mechanically with sounds, forceps and scoops of various sizes. This has been not an altogether satisfactory procedure. Stones have been missed, the ducts have been injured and the base has been laid for future stricture. Moreover, such exploration has been attended by a definitely increased risk.

Lahey, in a series of 2,000 personal cases, reports a mortality for cholecystectomy of 4 per cent. When the common duct is explored, this mortality increases to 13 per cent. Cole, reviewing many series of cases reported by various surgeons, reports an over-all mortality for cholecystectomy of 6.5 per cent and for common duct exploration of 10 per cent. It is obvious that such a mortality is too great to justify choledochotomy as a routine procedure. For this reason as well as the unfortunate complications aforementioned, an effort has been made to develop a method whereby the integrity of the common duct could be determined without increasing the mortality.

Examination of the biliary system by x-ray and radio-opaque materials is not new. As a postoperative procedure it has been employed for many years with variable degrees of satisfaction. In 1932, Mirizzi proposed that a cholangiogram be made on the operating table before closure of the abdominal wound. In 1936, Best and Hickem added their support to the idea. Following this

with some slight modification, the results of such a procedure have been reported by a number of surgeons. Broadly stated, the indications for operating room cholangiograms exist if there is reason to suspect stones within the biliary tract or any distortion or interruption of its continuity. Inasmuch as every patient having stones in the gall bladder is a potential carrier of stones within the common duct, this statement really implies that every patient having an operation upon the biliary tract should be examined by a cholangiogram made on the operating table.

The cholangiogram, to be adequate, involves the co-operation of surgeon, anesthetist and roentgenologist. Each must realize what is to be attempted and must contribute intelligently his part in the The surgeon must so plan his approach that without loss of time he may provide a field easy of access for the roentgenologist after having given the anesthetist sufficient warning and time for preparation of the patient. The technique of performance is not difficult or involved but is exacting in its details. The patient is placed on the operating table with a tunnel sufficiently deep to hold a cassette beneath the region of the gall bladder. A preliminary film is exposed to check the location and determine the necessary time of exposure. When this has been satisfactorily determined, the abdomen is opened in the usual manner. It is the practice of some operators to expose the common duct at once and open it sufficiently wide to permit the insertion of a T-tube, whereby the cholangiogram is made. As this procedure at once accepts the increased risk of choledochotomy, it does not appear to be justified as a routine procedure. Furthermore, I do not believe that it is necssary in order to obtain a satisfactory cholangiogram. Several have attempted to avoid opening the common duct by injecting the radiopaque substance through a needle. In my hands this has proved most unsatisfactory. The needle, if sufficiently large to complete the procedure satisfactorily, often injures the common duct and permits leakage after withdrawal. This not only at times obscures the cholangiogram but may invite complication from escape of bile. If a fine needle is used, it is difficult

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Presented before the Minneapolis Surgical Society, March 21, 1950.







Fig. 1. Normal cholangiogram. Normal biliary tree and normal pancreatic duct.

Fig. 2. Abnormal cholangiogram. Dilated common duct and multiple retained stones.

Fig. 3. Abnormal cholangiogram. Dilated common duct with stones in ampulla. Dilated pancreatic duct.

to aspirate and examine the bile and also difficult to determine the intraductal pressure during injection.

It is our practice first to remove the gall bladder and, after carefully isolating the cystic duct, to cut the duct, leaving it about 1 inch in length. A small probe is then introduced to determine its patency. At times a small retained cystic duct stone can be identified. At other times it will be found that the Heisterian folds are difficult to pass and constitute an actual obstruction to injection. Once the cystic duct has been sufficiently opened, a soft silver cannula 1 or 2 millimeters in diameter is inserted and tied firmly with catgut. The cannula must be inserted carefully because of the danger of perforation of the thin cystic duct or common duct wall. It is safer and quite as satisfactory to insert the cannula only into the cystic duct and not allow it to enter the common duct itself.

The earlier attempts at cholangiography were made with lipiodol, but because of its viscosity and tendency to entrapment of air bubbles, this material was discarded. Thorotrast was also employed at one time, but it was found that leakage into the peritoneal cavity of even small amounts results in a chemical peritonitis of serious nature. The medium commonly employed at present is one of the iodine compounds used in intravenous urograms, such as diodrast or iopax. The material is aqueous, non-irritating and sufficiently fluid to enter the small biliary radicles

without excessive pressure. In the normal biliary tree the injected substance, diodrast or iopax, may be used in full strength. If, however, the duct is enlarged, the material should be diluted onehalf so that the density of the material does not obscure the defect caused by a small stone.

As before noted, a small cannula is tied in the long cystic duct and attached to this is a 20 c.c. Luer syringe with rubber tubing and connector 12 inches in length. The syringe is filled with normal saline, and the system is cleared of air bubbles and then connected. Twenty to 30 c.c. of saline is then used to irrigate the biliary tract. The syringe is then filled with 20 c.c. of diodrast, which is injected slowly. If the injection is made too rapidly and the common duct is distended too suddenly, sphincter spasm will result and frequently the patient will be so disturbed as to require deeper anesthesia. If the patient is under pentothal anesthesia, too rapid injection may cause laryngospasm. Toward the end of the injection, all metallic substances are removed from the field, which is then covered with a protecting drape, and the x-ray apparatus is wheeled in position. During the period of injection, the anesthetist has by means of oxygen and forced respiration induced a state of apnea. When advised by the surgeon that injection is complete, the anesthetist stops the respiratory motion. The signal is given to the roentgenologist who immediately exposes the film for a period ranging from 1/2 to 1 second. In the average case the readings are as follows:

80 ky, 40 ma, 30 inches distance with cone attached, .7 second time. The plate is then removed from the tunnel and a second plate inserted. Immediately a second exposure is made in the same manner as the first. This permits further diffusion of the dye and reduces the percentage of error due to motion. The films are developed immediately and examined in the operating room. In the event that they are not sufficiently clear or that the proper field has not been included, the procedure is repeated. If the cholangiogram is normal, the cystic duct is tied and the excessive portion is removed together with the cannula. If, on the other hand, the cholangiogram presents evidence of abnormality, the cannula is removed and the duct tied in the same manner, and the common duct is then exposed for exploration. At the end of exploration and the removal of any obstructing material, a T-tube is placed in the common duct and sutured in place with 5-0 chromic catgut. The tube is then connected with a syringe filled with saline and again the biliary tract is irrigated. Following thorough irrigation, the biliary tract is again injected with diodrast and x-ray films are made as previously. When the films show no further evidence of retained stone and when the dye passes readily and can be demonstrated in the duodenum, the wound is closed and the operation considered complete.

On occasion, particularly after trauma to the

duct in the removal of a stone, the final cholangiogram made through the T-tube will show evidence of sphincter spasm which may temporarily obstruct the flow into the duodenum. If this occurs on the preliminary cholangiogram or on the final film, amyl nitrite is administered by inhalation. This relaxes the spasm and permits the diodrast to pass freely into the duodenum. In certain cases it may be desirable to demonstrate the pancreatic duct and its relation to the common duct. If this does not occur in the usual course of injection, it may be obtained by following the procedure of Doubilet.

Summary

In operations upon the biliary tract it is desirable to know whether or not stones are present in the common duct. An operating room cholangigram provides this information without choledochotomy and without increased risk.

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RHEUMATIC PNEUMONIA

(Continued from Page 438)

infiltrated with inflammatory cells. No bacteria were found on the lung on direct smear. The spleen was markedly congested and showed a definite lymphoid hyperplasia. The kidneys and adrenals appeared normal. The liver showed moderate central lobular congestion.

Cause of Death.-(1) Acute fulminating exudative pneumonia-etiology unknown. (2) Acute rheumatic fever.

Anatomical Diagnosis .- (1) Rheumatic pericarditis, myocarditis, and valvulitis. (2) Pericardial effusion. (3) Acute fulminating exudative pneumonia-etiology unknown (rheumatic ?).

Summary

An acute fulminating lobar pneumonia which occurred twenty days after the onset of rheumatic heart disease in a six-and-a-half-year-old white girl has been reported. It is theorized that this acute fulminating exudative pneumonia was rheumatic in origin.

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PRACTICAL POINTS IN ALLERGY

JOSEPH H. SHAFFER, M.D. Detroit, Michigan

THERE are probably no individuals quite so miserable, unhappy and chronically ill as those who suffer from major allergic conditions, and again, there are no patients more grateful when afforded some measure of relief. With diligent study of the problems, and with application of common sense in setting up a plan for treatment and control of troublesome factors, relief from symptoms is an attainable objective.

Regardless of our individual interests in medicine, it would seem that we, as physicians, should recognize an allergic condition and be ready with some basic plan of procedure when such an individual enters our office. Notwithstanding the numerous press releases to the public heralding new "cures" for allergy, there is no short-cut we may take in controlling allergic conditions. It is true that the many new "allergy" drugs materially assist in the symptomatic treatment of such conditions, but this is not enough. We must concern ourselves with measures which strike at the problem from a physiological and immunological point of view.

In our study of patients, we should (1) look for symptoms and history data pointing to a diagnosis of allergy, (2) proceed in an orderly manner with study and investigation, and (3) develop a logical and simplified, yet effective therapeutic plan. With some practice, an interview with an allergy patient need not be lengthy; time thus spent, however, in my opinion, is the most profitable step we may take in our attempt at getting at the underlying causes. The problem can be fairly well crystallized at this point and before the patient is ushered into a testing booth. Physical examination and protein tests, selected with the thought in mind of verifying our clinical opinion, help us to put "teeth" into our diagnosis. Symptoms present the year around set off a chain of thought and action along one line, while the presence of sharply delineated seasonal symptoms only narrows the scope of the problem greatly. Since allergic changes may affect every tissue in the body at some time or another, symptoms may be numerous and variable. In addition to such well-known allergic conditions as hay fever, nasal allergy, bronchial asthma, eczema, urticaria, angioneurotic edema, and drug allergy, we now have allergy under consideration as playing a prominent role in arthritis, periarteritis nodosa, ulcerative colitis, pulmonary tuberculosis, rheumatic fever and headaches.

For the past two years we have been successful in reducing the incidence of the common respiratory infections. Antihistamine drugs administered early often effectively control coryza, sneezing, and edema of the upper respiratory tract mucosa, and may abort the process completely. Additional therapy with bacterial vaccines, dust and mold extracts has been most helpful; patients who, prior to treatment, experienced three to five respiratory infections during winter months have been kept entirely free of the common cold. This experience lends credence to current opinion that respiratory infections are superimposed upon allergic tissues, or that allergy, at a subclinical level, is often present in the cold-susceptible individual.

Reactions to drugs, chemicals and antibiotics are encountered almost daily in our practice. Perhaps we, as physicians, are unwittingly sensitizing a large cross-section of the population. It is not uncommon to treat a scratchy throat with penicillin, only to have our patient hospitalized for a week or so because of a severe reaction to that drug. Almost any of the medications we use in our every day practice are potential sensitizers of the patient. Complications and untoward reactions may cause conditions far more serious than the original ailment under treatment. Oral penicillin preparations commonly cause reactions, while aqueous intramuscular preparations are hardly ever at fault.

We cannot stop with an analysis of the allergy problem alone but must proceed with an evaluation of the total health status of the individual. We are doomed to failure before we start protein desensitization, unless we give proper corrective consideration to such problems as malnutrition, anemia, hypothyroidism, nervousness and frank foci of infection. Just as important as is exposure

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to antigenic substances are the conditions that lead to emotional instability, unhappiness or worry. Observations during the pollen season last year convinced us that patients experienced marked exacerbation of symptoms, independent of the pollen level, when there was a sudden drop in temperature, when the barometer was changing, or when the humidity soared into the nineties. Such conditions, however, are beyond our control.

Changes in environment are most important and should always be considered as a possibility. Are there new rugs, furnishings, pets, insecticides, chemicals, hobbies, clothes, cosmetics, or has a remodeling job been done on the home? Introduction of rock wool insulation into the walls of a cottage, with resultant condensation and mold, caused illness in one of our patients. He could sleep peacefully on his back porch, but experienced severe asthma when in the house more than fifteen minutes. Another patient could sleep at the home of his sister, while thirty minutes in his own home was followed by severe asthma; the problem was one of a moldy basement.

Next to a well-taken history, nothing is more valuable than a thorough examination, which may require assistance from one or several specialists in the various fields of medicine. X-rays must be considered as important in the study of the asthmatic chest, and pathology in the paranasal sinuses should not be overlooked. Serious headaches should be studied by the neurologist. The general practitioner is in an enviable position—it is he who knows the family, the patient and his problems, and it is to him that the patient first turns for help.

Protein tests enjoy entirely too much popularity, in my opinion, as a method of diagnosing an allergic condition. When used as is any laboratory procedure to confirm our clinical suspicions, they may prove quite helpful, but when made the sole basis for our diagnosis, they may be highly misleading. If they confirm our clinical impressions, accept the results; if they do not make sense and do not fit the picture, it is best to toss them aside.

Mass testing with hundreds of substances is unwarranted and is less desirable than selecting a few well-chosen substances which are deemed important from our review of the history of the case. A high percentage of positive tests on a single test subject is most unusual and should warn us that dermatographia (irritability of the capillary bed of

the skin) and *not allergy* is present. Control tests are always positive when applied to such a skin and should always be applied. Draw your fingernail or a blunt instrument across the skin and you will note the appearance of a red wheal.

Safety is necessary in the testing rooms. We have made it a rule to apply scratch tests initially, especially when testing individuals in whom we suspect a high degree of sensitivity, when testing children, and adults who are in an extremely weakened physical condition. When necessary we retest with intradermals. Block testing is helpful in avoiding the constitutional reactions which are always a possible source of danger. Although tests may be applied by a nurse, or well-trained technician, the physician should make frequent observations during the test period and make all interpretations.

Every allergist has his favorite list of foods that he considers troublesome. Rowe considers food to be the most troublesome and leading causative factor in all forms of allergy. We cannot duplicate his experiences in our large and busy allergy clinic. Allergists, by excluding numerous basic foods from diets, are large contributors to the malnourished condition of many patients. We should think carefully and have a sound basis for our action before we make such limitations in any diet

This year, as in the past, patients have experienced aggravation of hay fever symptoms when they are partaking abundantly of freshly harvested fruits and vegetables; at other seasons of the year such foods may be eaten with impunity. Uncooked fresh fruits and vegetables are high in antigenic quality. Cooking remedies this condition; it is well known that thorough boiling, or substitution of soy-bean milk, often is helpful in handling the milk-sensitive individual. It is best to serve moderate helpings and to rotate items in the diet.

Thousands of individuals suffer from hay fever. During the past summer pollination was unusually heavy, and sufferers were numerous in the untreated group. We, as physicians, should advise our patients that there is no better or more reliable method than pollen extract therapy. It is true that the ever-growing number of antihistamine drugs are helpful in the control of symptoms but will not furnish adequate protection for the highly sensitive individual. We should remember that as ragweed pollen disappears in late Septem-

ber, our patients may continue to have symptoms. In this group we should suspect dusts, *Hormodendrum* and *Alternaria* of the mold groups as added troublesome factors.

Hay fever is caused by the pollens of trees, grasses, and ragweed; patients sensitive to all may have symptoms from April through September. Such pollens are abundant and depend upon the wind for distribution, while flowers with their gay colors attract bees and insects, which spread the pollen about. Florists and funeral directors, however, may develop a high degree of sensitivity, but for practical purposes we need not consider flowers as creating a major problem in the control of hay fever. "Rose fever" is most often found to be due to tree and grass pollens. Goldenrod may be unjustly accused of causing symptoms which are in reality due to the drab and unnoticed ragweed in the same vicinity. We should know that heavy pollen counts are encountered in the nearby states of Ohio, Indiana and Illinois, and that certain areas in Michigan are extremely low: such localities afford a haven of refuge for our patients.

Pollination charts compiled by Durham and Tufts have been most helpful to allergists. From such charts we learn that trees begin to pollinate in mid-March and April, grasses in May, and ragweed in late July.

Spring Hay Fever

Pollens from practically all trees may cause hay fever. In this area poplar, oak, elm and maple are chief offenders. Symptoms as a rule are usually mild and may easily be controlled with symptomatic measures. There are patients, however, who are extremely sensitized to these pollens; they should receive pollen extract therapy, beginning not later than mid-January.

Early Hay Fever

Grasses pollinate sufficiently to cause symptoms from early May through July. Chief offenders in this area are timothy, June grass, Orchard grass and Red Top; they are all found in the usual lawn grass mixtures for sale at the hardware store. In our treatment mixture we include extracts of the pollens to which our patients show a wheal and pseudopod reaction on skin testing. Such injections should be started not later than mid-March.

Late Hay Fever

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Giant ragweed pollination begins about July 20 and becomes clinically important in mid-August. Low ragweed pollination reaches a peak about mid-September. We start patients on mixed ragweed extract not later than mid-May.

We favor the preseasonal treatment plan as mentioned above, and use it in preference to the perennial and co-seasonal. We start with dilute mixtures of extract and gradually increase dosage and strength as treatment progresses, ever on the lookout for overdosage as manifested by minor intolerances or the more serious constitutional reactions. We give pollen extract subcutaneously once a week. We ask our patients to remain in the waiting room for twenty minutes following injections; should an untoward reaction occur, they are then readily available for treatment. Should mild reactions occur, we give one of the antihistamines; should the reaction be more serious, a tourniquet is applied above the site of injection, and epinephrine (3 minims of 1:1000) is injected into the opposite arm.

When patients report for treatment, they are questioned closely regarding possible delayed reactions from the previous injection. When necessary, adjustments of dosage levels are made. Since it is impossible to predict accurately any dosage schedule which will fall within the tolerance level of the patient, and since treatment must be highly individualized, it is unwise and dangerous for doctors not to personally supervise pollen extract therapy.

Perennial Vasomotor Rhinitis

At this particular season we see many patients with exacerbations of year-round symptoms such as stuffy nose, post-nasal drip, sinusitis, and attacks of sneezing. Such symptoms are due to nasal allergy and are often associated with a high degree of susceptibility to the common cold. Patients in this group are usually found to be sensitive to feathers, dusts, furniture stuffing, lint from carpeting, molds, and fumes from chemicals and insecticides. Prolonged use of nose drops may be an aggravating factor; we do not prescribe them. Metabolic changes in hypothyroidism and pregnancy may aggravate the nasal condition, as will highly seasoned foods, chocolate, eggs, milk, and alcoholic beverages. This group of patients is indeed most difficult to treat, and requires patience, perseverance and resourcefulness on the

part of the patient as well as the doctor. Treatment includes strict allergic cleanliness, hyposensitization therapy with bacterial vaccines, dust and mold extracts. Antihistamines may materially assist in temporary control of symptoms.

Bronchial Asthma

Our basic plan of therapy for the asthmatic patient is five-fold. It calls for: (1) relief of bronchospasm (bronchospasmolytic drugs); (2) evacuation of mucus from the bronchial tree (bronchoscopic suction and lavage, use of iodides followed by postural drainage); (3) treatment of infection (penicillin, streptomycin, aureomycin, chloromycetin); (4) control of allergic factors (hyposensitization with dust and mold extracts, bacterial vaccines, allergic cleanliness, and protective environment); and (5) general supportive measures deemed necessary to correct anoxia, dehydration and malnutrition.

With such a comprehensive treatment plan it is obvious, I believe, why we are unsuccessful in the treatment of bronchial asthma, if we rely solely on one of the newer "miracle drugs" for results.

The Asthmatic Emergency.—The most frequent emergency condition encountered in our clinic is the patient with acute asthma. We have found it necessary to develop a dependable treatment routine adaptable to office practice. Many patients are promptly relieved, and are thus enabled to carry on with out-patient therapy; hospitalization is thus reserved for the desperately ill patient whose asthma may be complicated by cor pulmonale, severe peripheral vasomotor collapse, acute infection, or severe anoxia, dehydration and malnutrition.

Office Emergency Treatment .--

1. Triple intravenous therapy.—Glucose 100 c.c. in 5% concentration, in water; Aminophyllin Gr. 3¾; Sodium iodide 100 c.c. in 10% concentration. Mix together in cylinder and give slowly over twenty-minute period.

2. Epinephrine.—Give 2 to 3 minims (1-1000) "H" while the Intravenous is running. Give hypodermically.

3. Penicillin.—Give aqueous intramuscular, 300,000 to 400,000 units, if there is a history of recent infection, purulent sputum, fever or leukocytosis. (Repeat 1, 2 and 3 daily for three or four days and then twice weekly.)

4. Search for precipitating factors.—While the patient is resting for twenty to thirty minutes after the above treatment, elicit data for the history. Avoid basing your treatment plan on drugs and medications previously tried

and found ineffective. Antihistamines may be quite helpful in treating the asthmatic child but often aggravate asthma in the adult. We do not use antihistamines in the adult asthmatic patient. Iodides are most helpful and are necessary to thin the thick mucus which plugs the bronchial tree. Get rid of this mucus and you are well on your way to therapeutic success.

5. Medications for continuing treatment at home. (a) Bronchospasmolytic drugs (select one): Nethaphyl -one capsule three or four times daily or one capsule at onset of wheezing. Quadronal-one tablet three times daily or one tablet at onset of wheezing. Amesec-one tablet or capsule three or four times daily or one tablet at onset of wheezing. (b) In addition to above start patient on Hydryllin one tablet after each meal and one at bedtime. (c) Start an iodide preparation: Syrup of Calcidrine-one teaspoonful after each meal or Potassium iodide enseals-one after breakfast and supper. (d) Asthma Mixture (HFH Formulary): This medication has proven effective over a period of many years, and is quite helpful by itself or may be used in conjunction with any combination of the medications listed above.

ASTHMA MIXTURE

Tincture belladonna	10.0
Ephedrine sulphate (3%)	30.0
Codeine sulphate	0.6
Chloral hydrate	15.0
Syrup of hydriodic acid q. s. ad2	40.0
Sig.: One teaspoonful every four to	six

Long Range Treatment Program.—After the acute emergency condition has been brought under control, we must next consider, and institute a long range therapeutic program. Suggestions listed below may prove quite helpful.

1. Culture the sputum.

Lack of response to adequate penicillin therapy may be due to Gram-negative organisms. If so substitute Aureomycin or Chloromycetin for penicillin.

Chloromycetin—initial dose 1 gram, then ½ gram every six hours for five to seven days.

2. Protein test survey.

Delay protein testing for several weeks after status asthmaticus has cleared. Use information gained from protein testing, along with facts as elicited in the history, to set up hyposensitization therapy with pollen extracts, dust and mold extracts, and bacterial vaccines.

3. Allergic cleanliness.

Cover feather pillows with plastic or silk dustproof-covers, discard tufted bead spreads, eliminate pets from the living quarters, eliminate the mold problem in the basement, protect the housewife or the working man from dusts insofar as possible (masks, filters for hot air ducts, sub-

(Continued on Page 512)

History of Medicine In Minnesota

MEDICINE AND ITS PRACTITIONERS IN OLMSTED COUNTY PRIOR TO 1900

NORA H. GUTHREY Rochester, Minnesota

(Continued from the April issue.)

Isaac Hall Orcutt (1847-1912), of Dodge County, Minnesota, was a practitioner of medicine in Byron, Olmsted County, from March, 1876, to January, 1883, and from 1893 until his death was well known in other parts of southern Minnesota. He commonly signed his name "I. H. Orcutt" and was known as "Dr. Hall Orcutt." He was a member of a family that for many decades has been established in Dodge and Olmsted Counties.

Born on June 7, 1847, near Westmoreland, Oneida County, New York, Isaac Hall Orcutt was the son of Isaac Orcutt and Julia A. Knapp Orcutt. By a previous marriage, about 1828, Isaac Orcutt had three children, Elizabeth Antoinette, George and Charles. By the second marriage, about 1835, there were eight children: Theodore de Martigne, Cola di Rienzi, Peter Ezra, Sheldon Read (for many years a carpenter in Dodge Center), Edward Henry, Levera Jane, Isaac Hall, and Alfred Stoddard (a Baptist preacher, who died in Luverne, Minnesota, in 1886). With his wife and children Isaac Orcutt in 1848 left New York for Ohio. From Ohio the group emigrated to Iowa in 1851, and from Iowa to Minnesota in 1855, settling on a farm in Milton Township, Dodge County; in 1863 they moved a few miles onto land in Concord Township. They traveled to Minnesota in two wagons drawn by oxen, and forded the Zumbro River at Rochester, when the settlement was represented by one log building, which served as inn, store, living quarters and blacksmith shop.

Isaac Hall Orcutt received his early education at local district schools; in 1866 he enrolled at the Groveland Seminary at Wasioja, and on completion of his course returned home to teach the school of his boyhood in Concord Township. said that in 1872 he began the study of medicine, doubtless under a local physician as preceptor, although record of such study does not remain. On March 21, 1876, he was graduated with the degree of doctor of medicine from the Chicago Medical College and in the same month began the practice of medicine in Byron. Dr. S. B. Kendall had been established there many years; Dr. W. H. Willson, of brief residence, came at the same time as Dr. Orcutt. In April, 1879, Dr. Orcutt went to the University of Pennsylvania for a course in natural sciences, and during the latter part of this absence Dr. William M. Dodd, a local boy of Kalmar Township, Olmsted County, a graduate of the Chicago Medical College (in March, 1880), carried his practice for a few months. Dr. Orcutt returned in June, 1880, with his degree of doctor of philosophy and resumed his practice; in March, 1882, he took into partnership Dr. Carlos R. Keyes, a graduate (1881) of the medical department of the University of Vermont, who had arrived in Byron a few weeks earlier. Dr. Orcutt, because of ill health, was then giving up his professional ride

and restricting himself to office practice. In January, 1883, he retired to a farm between Dodge Center and West Concord.

Early in 1884, shortly after the death of his wife, Dr. Orcutt removed to Brookings, Brookings County, Dakota Territory, where he remained until 1893. For about two years a practicing physician (registered in the territory on April 28, 1886), in June, 1885, he was appointed to the faculty of the Dakota Agricultural College, at Brookings, as professor of natural sciences and curator of the college museum; there is record of his many field expeditions to collect botanical and geological specimens for the museum. His duties were comprehensive: He was college physician; from 1887 to 1891 he was professor of zoology, entomology and physiology; from 1888, in addition to his professorship, he was entomologist to the South Dakota Experiment Station at Brookings; from 1891 to late 1892, professor of zoology, geology and physiology. Notices have been observed of his lectures on health to the students, "giving them many valuable prescriptions"; on evolution; on entomology and the destruction of insects. In November, 1892, in the course of a political move within the college, it is said, Dr. Orcutt and five other professors were removed from the faculty, in the face of bitter protest of the entire student body, who sent a written vote of confidence to the deposed professors; many of the indignant students transferred to other colleges.

From early years a staunch Baptist, worker in the Sunday school, lecturer and preacher, Dr. Orcutt was outstandingly a prohibitionist and a scientific investigator of the ill effects of alcohol and tobacco on the human nervous system. For a few months after leaving the Dakota Agricultural College he continued his special studies at Brookings but early in 1893 removed to Owatonna, Steele County, Minnesota. There he brought out, in 1894, addressed to the public, his little book, Microbes and Men, the outgrowth of his special work, in the preparation of which he had been assisted by certain members of the faculty and the student body at Brookings, and by the Reverend S. A. McKay, of Owatonna. The frontispiece is a likeness of Dr. Orcutt, shown operating his sphygmograph, an instrument used in his many experiments and tests. In 1896 Dr. Orcutt removed to Northfield, Rice County, where he spent the remainder of his life, continuing his researches on alcohol and tobacco and lecturing on his findings before the Women's Christian Temperance Union and other interested groups in various towns of Minnesota and Iowa. For several years he served on the city school board of Northfield and also was engaged in overseeing properties in different parts of the state.

Isaac H. Orcutt was first married on May 23, 1876, to Emma A. Fairbanks, of Dodge Center, one of the two daughters of D. C. Fairbanks, farmer and grain and cattle buyer who had large holdings of land in the region of Dodge Center. Dr. and Mrs. Orcutt had one child, Allie Julia, named for Mrs. Orcutt's sister. Emma Fairbanks Orcutt died in Dodge Center on January 28, 1884, in her twenty-ninth year. In 1886 at Brookings, South Dakota, Dr. Orcutt was married to Carrie Ross, an undergraduate student at the college, a daughter of the Reverend Walter Ross, a Baptist minister in a near-by Dakota village; Mrs. Orcutt continued her college work and was graduated. Of this marriage there was one son, Walter Alfred.

Dr. I. H. Orcutt died at his home in Northfield on October 7, 1912, in his sixty-sixth year, of Bright's disease, survived by his wife, his daughter and his son; burial was in Oaklawn Cemetery, Northfield. Mrs. Orcutt died in Tampa, Florida, in 1928, where she had been making her home with her stepdaughter, the wife of

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Captain George Stanley Smitzes. Mrs. Smitzes, a former high school teacher, is a graduate of Carleton College and of the Minneapolis School of Music, and has done postgraduate work at the state universities of Wisconsin and Minnesota. Captain Smitzes, veteran of World War I, served in World War II as a duty officer at the Moore General Hospital at Swannanoa, North Carolina. Walter Alfred Orcutt, graduate of Carleton College and teacher of natural sciences at various colleges and universities, died in 1917, within two weeks of graduation from the medical department of Western Reserve University; his son, William Hall Orcutt, of Chicago, born in 1914, a graduate of the University of Chicago and Rush Medical College (1938), during World War II was a captain in the Medical Corps of the Army of the United States, in the Pacific area. Dr. W. H. Orcutt (1946) has a son, Thomas Orcutt, and a daughter.

C. (O. ?) M. Palmer, said to have been a graduate of the Chicago Homeopathic Medical College, a physician and surgeon of nine years' experience, came to Rochester, Minnesota, about December 1, 1875, from St. Charles, Winona County, where he had been in practice four years. In Rochester he opened an office in the Leland Block on Broadway and boarded at the Cook House. The Rochester Post of December 25, 1875, announced that Dr. Palmer had removed to Blue Earth City, Minnesota. In the History of Medicine in Winona County (1940) it was stated that about 1882 a Dr. Palmer owned a farm in that county.

Martin Thompson Perrine (1817-1900), an eclectic practitioner, was the first resident physician (1855) in Rochester, Minnesota, and the second physician in Olmsted County. It is believed that Dr. Hector Galloway, at Oronoco, preceded him in the county by a few months.

Martin T. Perrine, son of William Perrine, who was a descendant of David Perrin (David Perrin, The Huguenot, and His Descendants, 1665-1910, by Howland D. Perrine), emigrated from Pennsylvania into Ohio probably in the eighteen forties. His daughter Minnie, only child of his first marriage, was born in Meadville, Pennsylvania, on July 15, 1840. According to records of the Perrine family, there were two daughters of a second marriage: Jennie, who was married to Ebenezer B. Park, of Boston, and who later lived at Osage Mission, Kansas; and Hattie, who twice married, first to Carlton Shepard and second to A. G. Wallace.

From Ohio Dr. Perrine came with his family to Rochester, Minnesota, arriving in May, 1855. A note appears that in 1858 his office was at the Bell and Fisher Drug store. Minnie Perrine was one of the first pupils, in the summer of 1856, at Rochester's first schoolhouse, a little log building across the Zumbro River in the eastern part of the settlement.

In the autumn of 1860, because of ill health, Dr. Perrine removed to Lake City, Wabasha County, where he entered business in a drug and variety store with his brother, Dr. L. C. Perrine, like himself an eclectic practitioner. It is doubtful that Dr. M. T. Perrine thereafter practiced medicine in Minnesota. In an undetermined year he removed from Lake City to Osage Mission, Kansas, to make his home with his daughter, Mrs. Park. He died at her home (the place of death is sometimes given Chanute, Kansas) on October 13, 1900.

Minnie Perrine was married in Lake City on October 9, 1860, to Franklin A. Poole, of Rochester. Mr. Poole, of English descent, was born in Troy, Geauga County, Ohio, in 1834, and came to Rochester, Minnesota, in 1857 from Dubuque,

Iowa. Most of his adult life he was a merchant and druggist. In 1874 he went into business in Red Wing but in 1880 returned to Rochester, where for many years he was a druggist. Mr. and Mrs. Poole had one child, Alice, who died in infancy; Minnie Perrine Poole died in Rochester in December, 1908.

Robert McEwen Phelps (1858-1928), fifth appointee, in 1885, to the staff of the Second Minnesota Hospital for Insane, at Rochester, Olmsted County, gave forty years of service to the state, nearly twenty-eight years in Rochester and nearly thirteen years in St. Peter, a career of quiet influence and distinction.

Born at Ripon, Wisconsin, on March 15, 1858, Robert McEwen Phelps was the eldest of the three children of Abel McEwen Phelps and Pamelia Church Brockway Phelps, who were natives respectively of Norfolk, Connecticut, and Rochester, New York. Darius Phelps, father of Abel, a farmer as was the son, emigrated from Connecticut to Ohio in the early eighteen thirties and thence to Wisconsin.

Robert McE. Phelps received his early education in the public schools of Ripon and at Ripon College, from which he was graduated in 1880. Having decided on the study of medicine, in order to earn the money for his medical course he taught country school for one year after graduation from Ripon College and then worked with civil engineers for a railroad construction company in Wisconsin and Michigan, and also in Canada, on the first railroad built from Winnipeg to Swift Current. Thereafter he began his medical work under a preceptor, Dr. Rogers, of Ripon, and in 1883 entered Rush Medical College. He was graduated from Rush with the degree of doctor of medicine in March, 1885, and in the same month became Second Assistant Physician at the state hospital in Rochester, the first to hold that position; since 1881 the professional staff had consisted of the medical superintendent (Dr. J. E. Bowers) and one assistant physician.

Ethical, kindly and considerate in all relationships, Dr. Phelps won respect and esteem. He was a member of the Presbyterian Church, and a Republican. His recreational hobby from early years was amateur outdoor photography. Although a worker for the common good, he did not take part in civic affairs or hold public office. His deep interest in the welfare of the insane and his devotion to the art and science of psychiatric medicine filled and shaped his life; he kept abreast of advances in his field and for the good of the work applied his unusual literary talent and teaching ability.

His first four years in Rochester Dr. Phelps served as second assistant physician on the hospital staff. After the reorganization of the hospital in 1889 he became first assistant physician and the next year assistant superintendent. In 1889 there was established at the hospital a training school for attendants, in which he was influential, and in the autumn of 1890, when Dr. A. F. Kilbourne, the superintendent, approved the establishment of a training school for nurses at the hospital, Dr. Phelps became the moving spirit in the undertaking; the purpose was to train nurses for employment in the hospital and ultimately to supply nurses to other hospitals for insane. With the aid of Dr. Sara V. Linton and Dr. Nathan M. Baker, both of whom had joined the hospital staff in October, 1889, Dr. Phelps brought the training school to great success and usefulness, which continued many years. In November, 1890, the medical staff of the hospital, inspired and headed by Dr. Phelps, founded The Bulletin, the quarterly "psychiatric bulletin" of which M. K. Amdur wrote in 1941. Although short-lived, this publication was a noteworthy innovation and in it were presented many excellent papers by Dr. Phelps and his colleagues and by certain able psychiatrists from elsewhere in the state.

In the early nineties, in addition to other writings, for medical societies and official journals, Dr. Phelps published three graded text books (Rochester State Hospital Press) for use in the training school, books which had wide distribution in other state hospital training schools also: in 1893, A Junior Text-Book on Nursing in Bodily and Mental Sickness; in 1894, with his wife, Sara V. Linton Phelps, A Senior Text-Book on Nursing in Bodily and Mental Diseases; and in 1895, A Text-Book on Nursing in Bodily and Mental Diseases. During the Rochester period he contributed a weekly column, "The Saturday Philosopher," to the Rochester Post.

Throughout his career Dr. Phelps was active in medical societies: the Olmsted County Medical Society, from 1885 (its president, 1891); the Minnesota State Medical Society, from 1889; the Southern Minnesota Medical Association (a founder, 1892); and the American Medical Association. Among the special societies he was a member of the American Neurological Association and the American Medico-Psychological Association (once its president); the second of these groups, about 1921, became the American Psychiatric Association. After leaving Rochester for St. Peter, in 1912, Dr. Phelps was for many years active in the Nicollet-Le Sueur County Medical Society.

Robert McEwen Phelps and Sara Virginia Linton were married in Minneapolis on June 1, 1892. Dr. Linton Phelps continued as an assistant physician at the state hospital until her resignation in February, 1898. Three children were born to Dr. and Mrs. Phelps: Laura Linton, Isabella Brockway and Frances, the last of whom died in October, 1898, aged eleven months. In the spring of 1898 Dr. Linton Phelps contracted pulmonary tuberculosis, which caused her death five years later. Dr. Phelps because of his wife's illness was released from his hospital position for some two years and a half, beginning in June, 1899. After resumption of his work as assistant superintendent he remained at the Rochester State Hospital until September, 1912, when he became superintendent of the Minnesota Hospital for Insane, at St. Peter, succeeding Dr. H. A. Tomlinson. This superintendency Dr. Phelps filled ably until he resigned, because of failing health, on October 1, 1925. Thereafter he made his home with his daughter, Laura L. Phelps (Mrs. Charles Willard) Cross, of Faribault.

Dr. Robert McE. Phelps died at Faribault on October 27, 1928, after a terminal illness of four days, from chronic myocardial degeneration of long standing. His grave is beside that of his wife in Oakwood Cemetery, Rochester. Dr. Phelps was survived by his daughters, Mrs. Cross, of Faribault, and Isabella B. Phelps (Mrs. Floyd B.) Johnson, of St. Peter, and by seven grandchildren in the two families; by his sister, Isabella Phelps (Mrs. Frank E.) Gooding, of Rochester (died, 1944), and a niece, Isabella Gooding (since married to Parker D. Sanders, of Redwood Falls); and his brother, James B. Phelps, of Rochester. After the death of Mrs. Gooding, James B. Phelps made his home with Mr. and Mrs. Sanders; he died in Redwood Falls in March, 1945.

Sara Virginia Linton (Phelps) (1859-1903) was the tenth appointee, as an assistant physician, to the staff of the state hospital for insane at Rochester, Olmsted County, and on October 1, 1889, entered on eight years of exceptionally meritorious service.

Born on September 10, 1859, in Bucks County, Pennsylvania, Sara Virginia Linton was one of the five children of Joseph Linton and Christiana C. Beans Linton. It is of interest that of these children of a farm family in which the professional career had not been traditional, three became physicians. About 1860

Mr. and Mrs. Linton with their children emigrated from Pennsylvania to Wabash County, Indiana, it is said, and soon afterward to southern Minnesota, to settle near Kellogg, Wabasha County, in the days before the railroad had penetrated to that section. Within a few years they removed to Minneapolis, primarily to place the children in school. At a later period the father and two of the daughters filed on tracts of land in northwestern Minnesota.

Sara V. Linton obtained her early education in the common schools of Minneapolis, her academic courses at the University of Minnesota, and her medical training at the Woman's Medical College of Philadelphia. After receiving the degree of doctor of medicine, in 1889, she served for a few months as resident physician at the Northwestern Hospital, Minneapolis, before beginning her work with the insane.

The need for a department of gynecology at the state hospital in Rochester had become apparent by 1889 and inauguration and development of the work were placed in the hands of Dr. Linton. Throughout her service she was in charge of all gynecological procedures. Her "Report of the Gynaecological Department of Rochester State Hospital for 1895" in the Northwestern Lancet of April 15, 1896, gives an interesting résumé of the department's history and scope. In it she stated: "We are greatly indebted to the Drs. Mayo, of this city, for their kind assistance in helping us to extend our surgical work to include all of the more grave operations." Dr. Linton Phelps in those major procedures acted as surgical assistant. It was chiefly to meet the need for especially trained attendants in the new department of gynecology that the hospital training school for nurses was established in 1890. In foregoing notes on Dr. Robert McE. Phelps there was mentioned the able work of Dr. Linton in the school. There is record as well of her papers before special groups concerned with the care of the insane, her contributions to the hospital Bulletin, and her appearances before medical societies. In July, 1892, she was a founder of the Southern Minnesota Medical Association and in the same period a representative of the Olmsted County Women's Auxiliary to the World's Fair, heading the committee made up of herself, Mrs. W. J. Mayo and Mrs. Mark Olin, that had to do with all matters relating to health and public welfare.

After her marriage, on June 1, 1892, to Dr. Robert McE. Phelps, Dr. Linton Phelps continued her work at the hospital until February, 1898, when she resigned. As stated earlier, in the spring of 1898 she became ill with pulmonary tuberculosis. Changes of residence, to Wisconsin, to Walker, Minnesota, and Phoenix, Arizona, gave only temporary benefit, and on June 21, 1903, a few weeks after her return from Arizona Dr. Linton Phelps died in Rochester in her forty-fourth year. She was survived by her husband and by two little daughters.

Dr. Sara V. Linton Phelps has been described by those who knew her best as a slender woman of medium height and coloring, of special abilities, whose sympathetic and responsive spirit was apparent in her manner and facial expression. The esteem in which she was held in her profession was expressed not alone in tribute at her death but throughout her career by her immediate associates. In the words of Dr. A. F. Kilbourne, superintendent of the Rochester State Hospital in those years, "Her kindly care has brought relief to many a suffering woman, and much credit is due her for her painstaking treatment of these cases." And on her retirement, "Dr. Phelps was a most faithful and efficient officer whose soul was in her work."

The three physician members of the Linton family of Minneapolis were assistant

physicians at the Rochester State Hospital. Dr. Linton Phelps was the first. Dr. Laura A. Linton (1853-1915), a graduate of the medical department of the University of Minnesota in 1900, in June of that year began her work in Rochester; her death occurred there in 1915. The late Dr. William B. Linton (1855-1942), a graduate of Jefferson Medical College, Philadelphia, in 1886, after practicing medicine in Minneapolis twenty-five years, spent fifteen years, beginning in September, 1912, in Rochester. Early in 1928 he returned to Minneapolis, where he carried on a private practice until his death.

Henry Stanley Plummer (1874-1936), distinguished medical scientist, was an associate of the Drs. Mayo in Rochester, Minnesota, from 1901 until his death. Although he was not a resident of Olmsted County before 1900, in the decades of which this article particularly treats, he is included, for reason, in the series of men who practiced in the county in that period: As an undergraduate medical student he spent part of his vacations at St. Mary's Hospital, Rochester, "pursuing the study of the practicing practitioner," as the local press phrased it; in the first two years of his professional life (1898-1900), in country practice, he was even more closely concerned with the practice of medicine in Olmsted County than he was with practice in Mower County, where he lived, and in Fillmore County, where he was born.

Born on March 3, 1874, in the village of Hamilton, Henry S. Plummer was one of the four children of Dr. Albert Plummer, of English descent, and Isabelle Steer Plummer, of Scotch-English parentage. Isabelle S. Plummer, daughter of Greenberry Steer, of Adrian, Michigan, was before her marriage a schoolteacher in various parts of Fillmore County, notably in Rushford and in Sumner Township. Dr. Albert Plummer (1840-1912), one of southern Minnesota's best trained and ablest physicians, was a native of Auburn, New Hampshire, who came to Fillmore County in 1869; a graduate of Bowdoin Medical College in 1867, he earlier was a student at the medical school of Dartmouth College, where his father, Dr. Nathan Plummer, a native of Londonderry, New Hampshire, had been a student in 1816.

Henry S. Plummer grew up in Hamilton, attended the village school, and in 1892 was graduated from high school at Spring Valley, near by. After taking two years of academic work at the University of Minnesota, he enrolled in the medical department of Northwestern University for a course of four years; it was the length of the course, then unusual in this country, and the wealth of clinical material available, that fixed his choice on Northwestern University. In 1898 he received the degree of doctor of medicine and returned home to begin medical practice with his father, who since 1893 had lived in Racine, Mower County; the practice of father and son extended widely into the three counties already mentioned.

From childhood Henry Plummer accompanied his father whenever possible on rounds in village and country and by his sixteenth year he had become a practical clinical assistant. In that year his interest was aroused by an unusual case of goiter in his father's practice, and thereafter, in premedical years, at medical school, and in practice, he gave special attention to the thyroid gland and its diseases. During his formal medical course he began a continuing study of the blood also. Late in 1900 Dr. William J. Mayo, called in consultation by Dr. Albert Plummer in a case of aleukemic leukemia (leukopenic leukemia) was impressed so profoundly by Dr. Henry S. Plummer's knowledge of the blood and by his scientific imagination that on returning to Rochester Dr. Mayo proposed to his brother Dr. Charles H. Mayo that they invite the young physician to Rochester

for a discussion and if possible add him to their staff to bring the clinical laboratories up to date.

Dr. Plummer joined the staff of the Drs. Mayo early in 1901. He became the chief of the Division of Medicine of the Mayo Clinic and a professor of medicine of the Mayo Foundation for Medical Education and Research, Graduate School, University of Minnesota. During his thirty-five years in Rochester his work in diversified fields of medical science brought increased distinction to the clinic and merited prestige and high honor to himself. He was the author and the co-author of numerous scientific articles. His contributions to hematology, roentgenology, bronchoscopy, esophagoscopy, electrocardiography, and to knowledge of the physiology and pathology of the thyroid gland are known universally.

He was active in many scientific societies, which are listed in official biographical reference books. In 1935 Northwestern University conferred on him the degree of doctor of science (honoris causa). He was a Republican, a Mason, and a supporter of the Episcopal Church.

To Dr. Plummer, a master of mechanics and an inspired amateur architect, is due much of the efficiency of the Mayo Clinic buildings of 1912 and 1929. When each building took form it was the realization of a dream of the Drs. Mayo and their associates and the embodiment of Dr. Plummer's extraordiary mechanical genius. Perhaps most notable in the structure of 1929 are his numerous devices to facilitate intra-clinical communication and transfer of case records from floor to floor and from the clinic to the affiliated hospitals. In this building he gave new scope to the department of case records and statistics which he had initiated and directed, and he aided in increasing the efficiency of the library. Fittingly, a beautiful auditorium on the fourteenth floor bears his name. Dr. Plummer had a major part also in the design and construction of the Franklin Heating Station in Rochester, and because of his knowledge of physics and engineering he was sought as a consultant by the company that supplies Rochester and vicinity with natural gas.

Well called a genial philosopher and a profound thinker, Dr. Plummer was a man of keen and whimsical wit and humor, a scholar, a patron of the arts, literature and music, a horticulturist of standing; it was his expressed belief that the physician who renders his best service must have cultural interests as well as scientific knowledge. He traveled widely at home and abroad for study and for pleasure; he enjoyed motoring and, for some years in later life, cruising in his powered house boat on the Mississippi River.

Henry Stanley Plummer was married on October 4, 1904, to Daisy M. Berkman, a daughter of Dr. David M. Berkman and Gertrude Emily Mayo Berkman, of Rochester; Mrs. Berkman was the eldest child of Dr. and Mrs. William Worrall Mayo.

On December 31, 1936, in his sixty-third year, Dr. Plummer died from cerebral thrombosis at his home, Quarry Hill, in southwestern Rochester. Burial was in Oakwood Cemetery, Rochester. He was survived by his wife; a daughter, Gertrude Plummer (Mrs. James A.) Thomas, of Rochester; a son, Robert S. Plummer, of Los Angeles; and five grandchildren; and by his brother, Dr. William Albert Plummer, of Rochester.

Dr. W. A. Plummer (1883-1949) in 1910 joined the Drs. Mayo as an assistant in medicine. In 1949 he was the head of a section in medicine (since 1917) of the Mayo Clinic, and an associate professor of medicine, Mayo Foundation,

Graduate School, University of Minnesota. (Dr. W. A. Plummer died at his home in Rochester on March 22, 1949, from heart disease, in his sixty-sixth year.)

In 1950 Mrs. Henry S. Plummer, a talented musician and a leading worker for civic and social welfare in Rochester, continued to make her home at Quarry Hill.

Harriet E. Preston (1840?-1929), unmarried, a graduate of the Woman's Medical College of Pennsylvania in 1868, came to Rochester, Minnesota, in the autumn of 1869 and there practiced medicine and surgery until the summer of 1873, when she removed to St. Paul. She was in active practice in St. Paul through 1888 when, it is believed, she returned to Pennsylvania.

Her office and residence in Rochester first were in the home of Mrs. G. Bisbee, one door north of the Northwestern Wagon and Carriage Works, on Broadway. Later she occupied an office over Poole and Geisinger's Drug Store. Liked as a woman, she had personal friends among the solid citizens of the community, and respected as a physician, she occasionally assisted Dr. W. W. Mayo and other local physicians of excellent standing in consultations and in operative procedures. She was a member of the Rochester Conversazione, successor to or an offshoot of the Olmsted County Medical Society in the early seventies; on one occasion she read before the group an essay on the voice in which she explained the production of the voice and the regulation of its tones. Dr. Preston was licensed in Minnesota on December 28, 1883, under the medical practice act of that year, receiving certificate No. 486 (R).

A few of Dr. Preston's concise writings are preserved in earliest issues of the Northwestern Medical and Surgical Journal. One, in 1873, is a report on the causes of diseases peculiar to women, presented before the state board of health and published by request of that board; in the report she stated, "I am satisfied that until the habits of women are modified, neither medical science nor surgical art can give them a satisfactory degree of health." Another, "Why Are These Things So?" is her comment on an article, "Medical Opinions," by Dr. Brewer Mattocks, of St. Paul, which had appeared some weeks earlier. Her theme was the reason why medical opinions rated so low in the scientific and intellectual market. Her plea was for the protection of the title of doctor of medicine from confusion with the titles assumed by numerous sects of "pathists" and for rejection of "the odious and misplaced term allopath." She asserted that the knowledge of the medical profession should not be a sealed book and pointed out the need for physicians to lecture before schools, lyceums and scientific associations: "We need more writers, more skilled physicians who can and will, like Oliver Wendell Holmes, give to the world medical facts and philosophy, in a form that will please the taste and instruct the understanding."

(To be continued in the June issue.)

President's Letter

PHYSICIANS AS CITIZENS

Despite the contributions that the medical profession has made to the progress of life and culture, physicians have only recently won their citizenship from the court of American public opinion. Through an honest, vigorous appeal to the people of this country, the profession has regained its aggregate right of free speech and is rapidly attaining a new position of leadership, not only in its preempted field of medical science, but in the economic, governmental and social structures of this nation.

The interest with which the public regards the idea of a doctor being a citizen, too, is an inverted criticism of our all-too-recent abstinence from the affairs of state and nation.

Cumulative and dangerous trends of economic thought catapulted us, ready or not, into active roles in the formation of opinion, policy and law. We have come to realize that the public's health cannot be guarded by medical attention alone, that sometimes an unscrupulous politician can be more threatening than a virus to American health standards and an infiltration of decadent thinking more disastrous than an epidemic.

The onslaught of socialistic propaganda has been countered and virtually inundated by a barrage of truth from the family doctors in every community.

This re-alignment with the public, this new confidence the profession has gained, has developed at a time when national unity is essential. It has been said that total war between two great nations possessing the atom bomb and the means to deliver it could destroy civilization as we know it. Physicians bring to the cause of justice and freedom, the training and ability to act in a crisis. Not easily stampeded by emergencies, physicians, it is hoped, will be able to maintain key civil defense positions, in preparation for a time we pray will never come.

The medical profession is coming of age and assuming its rightful responsibilities in a century of uncertainty and fear and, confronted with multiplying challenges, we can only choose to rise to these challenges as better doctors and better citizens.

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President, Minnesota State Medical Association

Editorial

CARL B. DRAKE, M.D., Editor; GEORGE EARL, M.D., HENRY L. ULRICH, M.D., Associate Editors

OWEN H. WANGENSTEEN AN APPRECIATION

THIS issue of MINNESOTA MEDICINE is being dedicated to Dr. Owen H. Wangensteen in commemoration of the twentieth anniversary of the publication of his first work on the relief of intestinal obstruction by siphonage. We are happy to share in paying tribute to Doctor Wangensteen, and his accomplishments, with the Minnesota Academy of Medicine, which devoted its December meeting to honoring him, and the Saint Paul Surgical Society, which similarly recognized him at its meeting in January at which Dr. Alfred Blalock of Johns Hopkins Medical School was the guest speaker.

The journal has been fortunate in having two original articles written specially for this issue. The first is by Dr. I. S. Ravdin, John Rhea Barton professor of surgery, and Dr. William E. De-Muth, assistant instructor in surgery, University of Pennsylvania School of Medicine. The second is by Dr. Frederick A. Coller, professor of surgery at the University of Michigan, and his associate, Dr. Robert E. Lee Berry, a former student under Dr. Wangensteen. The address given by Dr. C. F. Dixon at the commemorative meeting of the Minnesota Academy of Medicine appropriately appears, too, in this issue.

The medical profession of Minnesota acclaims a man of renown. The present is the most appropriate time to express our appreciation of one of our members, Owen H. Wangensteen.

THE VARIETY CLUB HEART HOSPITAL

THE OPENING and dedication of the Variety Club Heart Hospital on the University of Minnesota campus on March 20, 1951, merits special recognition. It is the culmination of an idea which had its conception in 1945 in a conversation between the late Al Steffes, a theater owner in Minneapolis, himself a sufferer from heart disease, and Dr. Morse J. Shapiro, Associate Professor of Medicine and Pediatrics at the University of Minnesota. The idea was the building of

a hospital to be devoted exclusively to the study and treatment of heart disease.

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The idea was presented by Mr. Steffes to the Variety Club of the Northwest which had the vision and boldness to sponsor the project. This Variety Club is a so-called "tent" of the parent organization, the Variety Club International. which includes thirty-six "tents" located all over this country, and in Mexico, Canada and England. Membership includes almost anyone connected with the show business. The first club was organized in the late 1920's in Pittsburgh as an entirely social undertaking. In 1928 its character altered when it took over the care of a onemonth-old baby foundling left in a Pittsburgh theater. From then on, the club took as its motto, "A little child shall lead them," and the international organization has carried on activities which have benefited thousands of children yearly.

The Variety Club of the Northwest (Tent No. 12) is fifteen years old. In its short existence, it has carried on a number of activities for the benefit of children, such as equipping of a projection room at Glen Lake Sanatorium and supplying a show each week to the patients; contributing to the Twin City Milk Fund; contributing \$25,000 to aid refugees from Fascist tyranny. In 1944, it contributed \$85,000 to Sister Kenny for polio sufferers.

In 1945 the Variety Club of the Northwest began raising funds for a heart hospital of seventy-eight beds. Aided by other civic organizations, the University of Minnesota, and largely by the public through its contributions of quarters and dimes in collection boxes in theaters all over the Northwest, the local club was able to present the University of Minnesota in September, 1948, with a check of \$300,000 to begin construction. During the last three years, it has raised another \$160,000 and has promised support to the amount of \$25,000 yearly.

About one-third of the total cost of \$1,500,000 was raised by the Variety Club. The Federal Government, through the agency of the Hill-Burton act, donated \$600,000; the University, in-

dividuals and a bank loan of \$100,000 made up the needed total.

The hospital, which is a four-story structure just below and attached to the University Medical Unit, is the last word in hospital construction. One story is devoted to adults, one to children with a school room and theater, and the fourth floor to research. The hospital is being operated by the medical school faculty.

The dedication dinner was held March 20 in the main ballroom of the Coffman Memorial Building. The Variety Club Heart Hospital was graciously presented to the University by Mr. Arthur W. Anderson, Chief Barker of the Variety Club of the Northwest and chairman of its Heart Committee. President Morrill accepted the gift for the University.

No trifling matter, too, is the fund of \$500,000 raised by the American Legion and the Legion Auxiliary for the endowment of the American Legion Memorial Professorship to be devoted to research in heart disease as it affects children. Dr. Lewis Thomas is the first research professor. Another professorship established in the will of the late George S. Clark will be devoted to research in heart and allied diseases in the adult. Other generous grants for research in heart disease have been made by the Helen Hay Whitney Foundation, the Silas McClure Fund, the Minnesota Heart Association, the Alpha Phi Society, and the Minneapolis Chapter of the Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America.

The Variety Club Heart Hospital is the culmination of the efforts of many individuals and organizations in response to a spark which started a widespread response in the hearts of many Minnesota citizens.

MEDICAL SCHOOLS AND THE AMA

SOME of the accusations cast at times at the organized profession show a woeful lack of knowledge of the facts.

The profession, that is, the AMA, has recently been accused of deliberately restricting the production of doctors in order to reduce competition and insure its financial well-being. How impossible this would be is brought out by Dr. Hender-

son, president of the AMA, in a recent article.* While physicians have been active as individuals and groups in the establishment of medical schools, the organized profession has never set a quota for the number of medical schools nor the number of medical students. If it had, such action would have had no authority, for medical schools are administered by medical faculties, university administrators and trustees.

Back in 1910, the publicity that followed the Simon Flexner survey of medical schools in the country resulted in the abolition of many poorly equipped medical schools and the consolidation of others. The AMA began rating medical schools that same year, and the quality of medical education has continuously improved since that date. As a result the medical care of the people has correspondingly been bettered. Now comes the criticism that the standards set by the Council on Medical Education and Hospitals for medical schools are so high that their cost of administration is prohibitive. The answer is that the standards set are limited to basic principles that reflect educational policies developed and practiced by leading medical schools and provide great leaway for individuality in the various schools. Actually the standards established are not prohibitive. Medical schools are at present being contemplated in New Jersey and in Florida.

As a matter of fact, the establishment and development of medical schools have been, by and large, co-operative undertakings between members of the profession and universities, as is only proper. The same co-operation should continue in the administration of medical schools and doubtless will.

SENATOR HUMPHREY'S BABIES

A CCORDING to the Bulletin of the AMA issued by the Washington office under date of April 5, 1951, Senator Humphrey of Minnesota introduced on March 30 a bill (S 1235) in the Senate "To extend to persons entitled to receive medical care by or through the Veterans Administration the right to elect, to receive Chiropractic treatment." The bill provides that the Chief Medical Director of the VA would be required to make services of qualified chiropractors available to veterans. Senator Magnuson prepared the bill at the request of the Director of the Veterans of Foreign Wars, and for reasons un-

^{*}Henderson, Elmer L.: Medicine and medical education. M. Ann. District of Columbia, 20:181, (April) 1951.

known to us the bill was presented by Senator Humphrey. This is another example of the kind of enlightened leadership which our Senator Humphrey has shown in the past.

Senator Humphrey has also submitted a bill (S 1245) "To establish a program of grants-inaid to assist the States to provide maternity and
infant care for the wives and infants of enlisted
members of the Armed Forces during the present
emergency." This is a plan similar to the EMIC
of World War II. It differs, however, in that
it provides benefits for all enlisted members of
the Armed Forces instead of just the lowest four
pay-grades. The matter of doctors' fees and hospital payments is left to the Administration of the
Federal Security Agency. This legislation, if enacted, would cease to be effective at the close of
the fiscal year in which the President declares an
end to the national emergency.

This bill has had the backing of service organizations, both public and private. On March 28, 1951, the Minnesota State Legislature passed a resolution which was signed by the Governor requesting Congress to provide this additional remuneration for the families of men in service. Much as government-operated medical care and fees determined by the government are distasteful to the medical profession, it cannot be denied that enlisted personnel in the low-pay brackets cannot provide medical care for their wives and infants when their families increase. The administration of the EMIC program during World War II provided essentially for obstetrical care furnished by general practitioners. The fees allowed for obstetrical care were not what specialists, as a rule, charged. The obstetrical care provided, however, was good medical care. Snags in the operation of the law were encountered in the designation and selection of specialists as consultants. Probably leaving the selection of a consultant to the obstetrician in charge of the case would work most equitably in event this proposed bill is enacted, which it probably will. The general practitioner best knows the surgeon in his community whose opinion on a surgical or orthopedic problem is of value in consultation.

THE MINNESOTA STATE BOARD OF MEDICAL EXAMINERS

230 Lowry Medical Arts Building Saint Paul 2, Minnesota

Julian F. Dubois, M.D., Secretary

Saint Paul Man Pleads Guilty to Abortion Charge

Re. State of Minnesota vs. John W. Foster
On April 2, 1951, John W. Foster, fifty-four years of age, 276 Ramsey Street, Saint Paul, Minnesota, entered a plea of guilty in the District Court of Ramsey County, to an information charging him with the crime of abortion. Foster had been arrested on March 6, 1951, following information received by the Minnesota State Board of Medical Examiners that an abortion had been performed on a twenty-five-year-old Saint Paul divorcee. Foster, upon being arraigned in the District Court, admitted that he had performed the abortion and received \$50.00 for his services. Foster denied having performed any other abortions and claimed that his present difficulty was due to excessive drinking. Judge Arthur A. Stewart continued the case to April 16, for a pre-sentence investigation. On April 16, Foster was sentenced to a term of not to exceed four years in the State Reformatory at

placed on probation.

Foster, who holds no license to practice any from of healing in the State of Minnesota, stated to the Court that he was born at Eagle Point, Wisconsin; that he completed the eighth grade in school and has lived in Saint Paul since 1928. Foster stated that he had been doing photographic work and had worked part time as a musician. Foster was defeated as a candidate for sheriff in the 1950 election.

St. Cloud, the sentence being stayed and the defendant

TROUBLE MAKERS

Some people are inclined frequently to exaggerate in their statements. Some authors do so deliberately in order to start talk and, in the case of lay journals, increase sales. Such is an article entitled "Trouble in Our Hospitals" by Albert Deutsch which appeared recently in the Woman's Home Companion. In reply the secretaries of the American Hospital Association and the secretary of the American Medical Association sent the following telegram to the editor of the Woman's Home Companion. After all he didn't have to publish the article and a very little inquiry would have disclosed its misleading nature.

The telegram read as follows:

We wish to protest strongly the tone of "Trouble in Our Hospitals" by Albert Deutsch in the current issue of Woman's Home Companion.

While it is true there are some areas of disagreement between physicians and hospitals—just as there are in all human relationships—the author of this article has magnified these differences of opinion out of all proportion to the truth. His statement that "the AMA and the hospitals, which should be marching hand in hand toward better services for the sick, are locked in combat," is nothing short of sensationalism.

bat," is nothing short of sensationansm.

The doctors and hospitals have always co-operated in efforts to deliver the best possible medical care and will continue to do so. Any differences are being ironed out peaceably around the conference table.

GEORGE F. LULL, Secretary and General Manager American Medical Association GEORGE BUGBEE, Secretary American Hospital Association

Medical Economics

Edited by the Committee on Medical Economics of the Minnesota State Medical Association George Earl, M.D., Chairman

AMA JOURNAL MISSING? PAY 1950 DUES

Members of the American Medical Association who are not receiving their AMA Journal, should, according to word from the American Medical Association, see that they have paid their 1950 dues. Numerous inquiries about the situation throughout the country have brought this answer: when the 1950 dues were not paid by the end of the year, the doctor was entered in the category of delinquent membership in the AMA, and his name was automatically removed from the roster of members and from the list of those who receive the Journal.

The American Medical Association informed doctors that delinquent members will not be entered on the circulation list of the *Journal* until they have been reinstated to full membership, which means that they must pay BOTH their 1950 and 1951 dues. Direct word also states that "members who paid their 1950 dues on time (before the end of 1950) are in good standing and have until the end of 1951 to pay their 1951 dues. They will continue to receive the *Journal* during 1951 even if they cannot pay their 1951 dues until later this year."

After delinquent members have paid up both their 1950 and 1951 dues, they are reinstated and will begin receiving the *Journal* again. However, says the AMA, they should not expect to get the *Journal* the following week after they have written out their check. The process of reinstatement is often complicated and involves considerable office procedure. Prompt payment of dues will assure prompt delivery of the *Journal* of the American Medical Association.

BRITISH HEALTH SERVICE NEEDS DEATH "POTION"

Expressing the opinion of many forthright citizens of both England and America, the *Journal*

of the Oklahoma State Medical Association recently suggested that the British Health Service, because of its countless shortcomings, be given a "lethal potion" to put it out of its misery. Quoting Time magazine's recent article on the "meatless muddles of the Socialist government," it tells of one British doctor's comment, which seems to summarize much that has been said of the system. The doctor said that, "The strain of living conditions is making people take sleeping tablets like a second vegetable."

The medical journal makes this comment on the "calamity of compulsion:"

"Unfortunately, a sound sleep . . . under the National Health Service brings surcease of short duration with the inevitable return to hunger and hopelessness. Indeed this is poor compensation for such calamity.

"All this is reminiscent of the long standing quip, 'the more good beefsteaks in Britain, the more brave soldiers.' According to current reports, even the harassed hungry doctors would like to take a pill and sleep off this ugly nightmare. How about a lethal potion for the National Health Act."

REPORT ISSUED ON VOLUNTARY INSURANCE

A report submitted to the subcommittee on health of the Senate committee on labor and welfare, recently gave a comprehensive picture of the operations in the health insurance field of the insurance business in the United States. According to Eastern Underwriter, the report "revealed the important role played by the insurance business in the spectacular progress made by voluntary health insurance in the last few years in helping the American people to meet the unpredictable costs of hospital and medical care." The report stated:

"As of the end of 1949, protection provided by insurance companies represented 46 per cent of all hospitalization insurance carried by the American people at that time, three-fifths of all surgical expense protection, and one-third of all medical expense protection. In all, 41 per cent of the population were covered for hospitalization insurance at the end of 1949, 25 per cent of the population for surgical expense, and 9 per cent for medical expense."

The report was based on the volume of business done by seven associations which represent over 200 companies, which, combined, account for over seven-eighths of the total health and accident business done by insurance companies in the United States.

A breakdown of figures showed detailed information on types of policies, benefit provisions, distribution of coverage by states, and samples of ownership by sex, age, occupation and income brackets. Some of the main points were:

"Women represent nearly half of those covered under group hospital contracts written by insurance carriers on adults, 45 per cent of those under group surgical contracts, and 40 per cent of the number of adults under group medical insurance contracts. There is a substantial proportion of coverage among farmers and farm laborers, refuting the frequent assertion that health insurance is largely lacking in rural areas... A recent analysis of a group of newly-issued hospital expense policies indicates that approximately two-thirds of those obtaining this protection were in income brackets under \$4,000 a year. Every state and the District of Columbia have substantial voluntary health insurance coverage..."

JOURNAL EXPRESSES LONG-RANGE VIEWPOINT

During this period of world affairs, when everyone seems to have a quick cure for the world's ills, stable ideas and views come from many sources—and those ideas are often left unnoticed. One such is a recent editorial in the New England Journal of Medicine which urges mankind to take the long view of things: "were some safe plateau of mutual understanding to be reached, a morass of unnecessary human misery might be avoided by everyone."

Continuing, the Journal says:

"There is little doubt that the more ardent proponents of compulsory health insurance, so called, believe that modified socialism represents a political status that can be maintained, and that those citizens capable of the most intelligent leadership and imbued with the purest motives will automatically rise, like cream, to the top. Their opponents, on the other hand, despite their bitter vehemence, have no good reason for not examining with an open mind any proposals that are made and accepting those that can be said to represent progress toward a common goal.

"... the difficulty for those who wish to be honest is not in deciding whether to follow a right course or a wrong one; it lies in liberating their minds from misconceptions and prejudices, so that they may more accurately decide where the greater good may lie. In doing this, they may realistically appreciate their opponents' reasons for holding to their own views."

The Journal wonders if man's apparent progress is only that of Sisyphus, the man who labored eternally with a stone toward the unattainable summit of the hill. "Man still must learn that true progress is not made through scientific achievement or the acquisition of knowledge, but through the wise application of their resources," the Journal declares.

Through this highly philosophical viewpoint comes the added meaning that not only medicine and all other professions, but the whole of mankind, must resolutely look itself in the face, rate itself with merits and demerits, and work out its own salvation.

The Journal's "far viewpoint" is concluded with

"Salavation for the present race of mankind, if it is to come, will come not through the development of superior qualities, but through the proper use of the talents that man now possesses. It is not his to soar on wings attached with wax, but to stand erect on the good earth he now inhabits. The capacity is present. What is necessary is education, with emphasis on ethics, and a stirring of the loftier minds to assume that leadership without, which the goal so nearly won is lost."

DEFENSE FUNDS FOR BETTER HEALTH?

Evidence that administration forces would try to include their pet schemes in defense budgeting, has again been noted by the Wall Street Journal, about which the paper quickly sets out to "let the people know." Quoting Truman as saying, "Our defense needs include, in many areas, more food, better education, and better health services," the Journal goes on:

"No one can argue that more food, better education and better health are not desirable. But whenever such ideas come to the front they're inevitably coupled with the further idea that Uncle Sam is the one to put up the money to make them possible. Point Four is already underway as the current caboose on our billions-of-dollars foreign aid train. There's a good chance that it will become a global freighter all on its own, to carry our dollars around the world.

"Every dollar that goes abroad this way is a dollar less for our own schools, our own streets and our many local services which have deteriorated under two decades of depression and war."

Minnesota State Medical Association

Roster for 1951

Officers

J. F. NORMAN, M.D	President	Crookston
R. L. J. KENNEDY, M. D	President-Elect	Rochester
WILLARD D. WHITE, M.D	First Vice President	Minneapolis
ALEX E. BROWN, M.D	Second Vice President	Rochester
	Secretary	
W. H. CONDIT, M.D	Treasurer	Minneapolis
C. G. SHEPPARD, M.D		Hutchinson
H. M. CARRYER, M.D	Vice Speaker	Rochester
R. R. ROSELL	Executive Secretary	Saint Paul

Councilors

(Terms expire December 31 of year indicated.)

First District JOHN M. WAUGH, M.D. (1953)Rochester	Fifth District JUSTUS OHAGE, M.D. (1952)Saint Paul
Second District	Sixth District
R. C. Hunt, Sr., M.D. (1953) Fairmont	O. J. CAMPBELL, M.D. (1954) (Chairman) Minneapolis.
Third District L. G. SMITH, M.D. (1952)	Seventh District W. W. Will, M.D. (1952)Bertha
Fourth District	Eighth District
H. J. Nilson, M.D. (1954)North Mankato	W. L. Burnap, M.D. (1951) (deceased) Fergus Falls
Ninth District	

A. O. Swenson, M.D. (1953)......Duluth House of Delegates, American Medical Association*

(Terms expire December 31 of year indicated.)

Members	Alternates		
O. J. Campbell (1953)	W. W. Will, M.D. (1953)		

Scientific Committees

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F. C. CLOSUIT. AITKIN COUNTY F. C. CLOSUIT. AITKIN COUNTY H. T. PETRABORG AIKKIN R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
F. C. CLOSUIT. AITKIN COUNTY F. C. CLOSUIT. AITKIN COUNTY H. T. PETRABORG AIKKIN R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
F. C. CLOSUIT. AITKIN COUNTY F. C. CLOSUIT. AITKIN COUNTY H. T. PETRABORG Aitkin ANOKA COUNTY R. J. SPURZEM. Anoka F. E. MORK. Anoka E. W. MILLER Anoka BECKER COUNTY H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. AITKIN COUNTY H. T. PETRABORG AIKKIN R. J. SPURZEM ANOKA COUNTY F. E. MORK ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes ARNOLD LARSON Detroit Lakes BELTRAMI COUNTY D. H. GAYLOCK Bemidji T. P. GROSCHUFF Bemidji D. D. WHITTEMORE BEMIDJI	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG Aitkin R. J. SPURZEM ANOKA COUNTY F. E. MORK Anoka E. W. MILLER Anoka E. W. MILLER Anoka E. W. MILLER Anoka DECKER COUNTY H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes D. H. GAYLOCK BELTRAMI COUNTY T. P. GROSCHUFF Bemidji D. D. WHITTEMORE BEMIDJI D. D. WHITTEMORE BENTON COUNTY WILLIAM FRIESLERN BENTON COUNTY Sauk Rapids	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG Aitkin R. J. SPURZEM ANOKA COUNTY F. E. MORK Anoka E. W. MILLER Anoka E. W. MILLER Anoka E. W. MILLER Anoka DECKER COUNTY H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes D. H. GAYLOCK BELTRAMI COUNTY T. P. GROSCHUFF Bemidji D. D. WHITTEMORE BEMIDJI D. D. WHITTEMORE BENTON COUNTY WILLIAM FRIESLERN BENTON COUNTY Sauk Rapids	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG Aitkin R. J. SPURZEM ANOKA COUNTY F. E. MORK ANOKA E. W. MILLER ANOKA BECKER COUNTY H. C. OTTO. Frazec A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes D. H. GAYLOCK. Bemidji D. D. WHITTEMORE Bemidji D. D. WHITTEMORE Bemidji BENTON COUNTY WILLIAM FRIESLEBEN BEMIDIO WILLIAM FRIESLEBEN SAUK Rapids C. S. DONALDSON Foley N. F. MUSACHIO FOLEY	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D. Duluth VISORY COMMITTEES R. N. Andrews Mankato R. G. HASSETT MANKATO BROWN-REDWOOD-WATONWAN COUNTIES C. A. SAFFERT New Ulm ED. WOHLRABE Springfield O. B. FISSENMAIER New Ulm ED. WOHLRABE CARLITON COUNTY I. K. BUTLER CARLITON COUNTY R. M. EPPARD Cloquet E. O. HANSON Cloquet M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN WATER O. F. POGUR WATEROWN O. F. RINGLE CASS COUNTY CASS LAKE CHIPPEWA COUNTY CH
County Medical Action F. C. CLOSUIT. AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG. Aitkin R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes BELTRAMI COUNTY D. H. GAYLOCK. Bemidji T. P. GROSCHUPF Bemidji D. D. WHITTEMORE Bemidji WILLIAM FRIESLEBEN Sauk Rapids C. S. DONALDSON Foley N. F. MUSACHIO Foley BIG STONE COUNTY	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D. Duluth VISORY COMMITTEES R. N. Andrews Mankato R. G. HASSETT MANKATO BROWN-REDWOOD-WATONWAN COUNTIES C. A. SAFFERT New Ulm ED. WOHLRABE Springfield O. B. FISSENMAIER New Ulm ED. WOHLRABE CARLITON COUNTY I. K. BUTLER CARLITON COUNTY R. M. EPPARD Cloquet E. O. HANSON Cloquet M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN WATER O. F. POGUR WATEROWN O. F. RINGLE CASS COUNTY CASS LAKE CHIPPEWA COUNTY CH
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG Aitkin R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes ARNOLD LARSON Detroit Lakes D. H. GAYLOCK. Bemidji T. P. GROSCHUFF Bemidji T. P. GROSCHUFF Bemidji D. D. WHITTEMORE Bemidji BENTON COUNTY WILLIAM FRIESLEBEN C. S. DONALDSON FOLEY N. F. MUSACHIO FOLEY L. OLIVER OTTO BERGAN Clinton BIG STONE COUNTY I. L. OLIVER OTTO BERGAN Clinton	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D
County Medical Action F. C. CLOSUIT. AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG. Aitkin R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes BELTRAMI COUNTY D. H. GAYLOCK. Bemidji T. P. GROSCHUPF Bemidji D. D. WHITTEMORE Bemidji WILLIAM FRIESLEBEN Sauk Rapids C. S. DONALDSON Foley N. F. MUSACHIO Foley BIG STONE COUNTY	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D. Duluth VISORY COMMITTEES R. N. Andrews Mankato R. G. HASSETT MANKATO BROWN-REDWOOD-WATONWAN COUNTIES C. A. SAFFERT New Ulm ED. WOHLRABE Springfield O. B. FISSENMAIER New Ulm ED. WOHLRABE CARLITON COUNTY I. K. BUTLER CARLITON COUNTY R. M. EPPARD Cloquet E. O. HANSON Cloquet M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN CARVER COUNTY M. B. HEIBEISEN WATER O. F. POGUR WATEROWN O. F. RINGLE CASS COUNTY CASS LAKE CHIPPEWA COUNTY CH
County Medical Ac AITKIN COUNTY F. C. CLOSUIT. Aitkin H. T. PETRABORG Aitkin R. J. SPURZEM. ANOKA COUNTY F. E. MORK. ANOKA E. W. MILLER ANOKA H. C. OTTO. Frazee A. R. ELLINGSON Detroit Lakes ARNOLD LARSON Detroit Lakes ARNOLD LARSON Detroit Lakes D. H. GAYLOCK. Bemidji T. P. GROSCHUFF Bemidji T. P. GROSCHUFF Bemidji D. D. WHITTEMORE Bemidji BENTON COUNTY WILLIAM FRIESLEBEN C. S. DONALDSON FOLEY N. F. MUSACHIO FOLEY L. OLIVER OTTO BERGAN Clinton BIG STONE COUNTY I. L. OLIVER OTTO BERGAN Clinton	MINNESOTA STATE CERTIFICATION BOARD ON PUBLIC HEALTH NURSING MARIO M. FISCHER, M.D

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J. E. HALPIN Rush City A. E. HOLMES Rush City R. G. SWENSEN North Branch	R. D. HANOVER Little Fork DAVID POTEK International Falls C. C. CRAIG International Falls
ALLAN E. Moe CLAY COUNTY Moorhead O. H. JOHNSON Moorhead J. W. DUNCAN Moorhead	LAC QUI PARLE COUNTY MAGNUS WESTRY
L. J. LARSON	RALPH PAPERMASTER
W. R. SMITHGrand Marais	LINCOLN COUNTY
H. C. Stratte	A. L. VADHEIM
V. E. QUANSTROM Brainerd G. I. BADEAUX Brainerd J. B. NIXON Crosby	B. C. FORD Marshall L. M. BENSON Tracy W. W. YAEGER MANNAMEN COLUMN
A. D. Field	K. W. COVEY
DODGE COUNTY Dodge Center H. R. Baker Hayfield D. E. Affeld Kasson	A. E. CARLSON
G. W. Clifford Alexandria L. M. Boyd Alexandria A. R. Blakey Osakis	R. C. HUNT Fairmont O. E. WANDKE Fairmont J. M. GROGAN Ceylon
FARIBAULT COUNTY	H. H. HOLM
H. M. Skaug Chatfield Chatfield Preston L. W. Clark Spring Valley Spring Valley Chatfield Chatfi	H. E. WILMOT Litchfield JOHN VERBY Litchfield LENNOX DANIELSON Litchfield
S. A. Whitson Albert Lea	MELVIN VIK
GOODHUE COUNTY Red Wing W. W. Lipprid Red Wing Red Wing	D. L. JOHNSON COUNTY ALEX WATSON Little Falls Royalton MOWER COUNTY
County	R. S. Hegge Austin P. A. ROBERTSON Austin R. R. Weight Austin L. F. Twiggs Austin
W. W. RIEKE	B. M. STEVENSON Fulda R. F. PIERSON Slayton H. D. PATTERSON Slayton
N. T. Norris Caledonia L. K. Onsgard Houston L. A. KNUTSON Spring Grove HUBBARD COUNTY	NICOLLET-LE SUEUR COUNTY
DONALD HOUSTON Park Rapids W. W. HIGGS Park Rapids JOHN EILER Park Rapids ISANTI COUNTY	E. W. Arnold
L. H. Hedenstrom Cambridge W. T. Nygren Braham RICHARD WHITNEY Cambridge ITASCA COUNTY	ESKIL ERICKSON Halstad THEODORE LOKEN Ada
E. K. ROWLES	OLWSTED COUNTY
J. T. Rose	H. F. POLLEY Rochester T. O. WELLINER Rochester C. B. McKaig Pine Island OTTER TAIL COUNTY
C. S. Bossert Mora W. F. Nordman Mora	W. L. Burnap (Deceased)
R. J. Hodapp Willmar R. P. Michels Willmar H. G. Bosland Willmar KITTSON COUNTY	O. F. MELLBY Thief River Falls T. E. BRATRUD Thief River Falls M. D. STAREKOW Thief River Falls PINE COUNTY
G. A. KNUTSON	A. K. Stratte Pine City E. G. Husin Sandstone H. P. Dredge Sandstone
MAY, 1951	465

PIPESTONE COUNTY	WASECA COUNTY
W. G. BENJAMIN Pipestone G. G. LOHMANN Pipestone G. BECKERING Edgerton	G. H. Olds
C. L. OPPEGAARD	W. R. HUMPHREY Stillwater RUSSELL E, CARLSON Stillwater
POPE COUNTY	W. E. WRAYCampbell
PAUL SWEDENBERG Glenwood A. F. GIESEN Starbuck B. A. McIver Lowry	WINONA COUNTY
	R. H. Wilson Winona R. B. Tweedy Winona Herbert Heise Winona
A. G. SCHULZE	JOHN J. CATLIN
L. N. Dale	YELLOW MEDICINE COUNTY R. H. KATH
RENVILLE COUNTY	CARL LUNDELLGranite Falls
DICE COUNTY	Councilan Districts
D. W. Francis Morristown P. H. Weaver Faribault Warren Wilson Northfield	Councilor Districts First District
ROCK COUNTY	J. M. WAUGH, M.DRochester
C. L. SHERMAN Luverne A. C. MARTIN Luverne F. W. BOFENKAMP Luverne	Counties—Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, Winona
J. L. Delmore, Sr	Second District
	R. C. Hunt, Sr., M.DFairmont Counties—Cottonwood, Faribault, Jackson, Martin,
M. G. Fredricks	Murray, Nobles, Pipestone, Rock.
SCOTT COUNTY	Third District
H. M. JURGENS Belle Plaine B. F. PEARSON Shakopee F. P. KORTSCH Prior Lake	L. G. SMITH, M.D.,
SHERBURNE COUNTY	Swift, Traverse, Yellow Medicine. Fourth District
	H. J. Nilson, M.D
ROLF Hovde Winthrop THOMAS MARTIN Arlington D. C. OLSON Gaylord Gayl	Counties—Blue Earth, Brown, Carver, Le Sueur, Mc- Leod, Nicollet, Redwood, Scott, Sibley, Waseca, Wa- tonwan.
R. N. Jones St. Cloud K. A. Walfred St. Cloud C. F. Brigham St. Cloud	Fifth District
C. F. BrighamSt. Cloud	JUSTUS OHAGE, M.D Saint Paul
D. H. Dewey Owatonna	Counties—Anoka, Chisago, Dakota, Isanti, Kanabec, Mille Lacs, Pine, Ramsey, Sherburne, Washington.
SMEWENS COUNTY	Sixth District
M. L. RANSOM Hancock R. A. ROSSBERG Morris A. I. ARNESON Morris	O. J. CAMPBELL, M.D
E. J. KAUPMAN Appleton R. P. GRIPFIN Benson HANS JOHNSON Kerkhoven	Seventh District
HANS JOHNSONKerkhoven	W. W. WILL, M.DBertha
M. E. Mosby Long Prairie L. M. Cook Staples C. B. Will Bertha	Counties—Aitkin, Beltrami, Benton, Cass, Clearwater, Crow Wing, Hubbard, Koochiching, Morrison, Stearns, Todd, Wadena.
A L LINDBERG Wheatan	Eighth District
A. L. LINDBERG	W. L. Burnap, M.D. (Deceased)Fergus Falls Counties—Becker, Clay, Douglas, Grant, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Otter Tail, Pennington, Polk, Red Lake, Roseau, Wilkin.
C. G. OCHSNER WABASHA COUNTY E. C. BAYLEY Lake City E. W. Ellis Elgin	
L. T. Davis	Ninth District
C. H. Pierce Wadena W. E. Parker Sebeka	A. O. Swenson M.D
466	MINNESOTA MEDICINE

Woman's Auxiliary to the Minnesota State Medical Assocation

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Mrs. Charles W. Waas Past President Saint	Paul
Mrs. Harry Klein First Vice President I	Duluth
Mrs. Reuben F. Erickson Second Vice President Minne	eapolis
Mrs. Andrew Christiansen	t Paul
Mrs. R. L. J. Kennedy Fourth Vice President Ro	chester
Mrs. Harold G. Benjamin Recording Secretary Minne	eapolis
Mrs. H. M. Carryer Corresponding Secretary Room	chester
Mrs. P. S. Rudie Treasurer	Duluth
Mrs. J. C. Buscher Auditor Saint	Cloud
Mrs. L. RAYMOND SCHERER Historian Minne	eapolis
Mrs. S. S. Hesselgrave Parliamentarian Cente	er City

Regional Advisors

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MRS.	W. A. MERRITT	First	District		Rochester
MRS	WALTER BENJAMIN	Second	District	t	Pipestone
MRS.	O. B. Fesenmaier	Third	District		New Ulm
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MRS.	C. HARRY GHENT	Fifth	District		Saint Paul
MRS.	FREDERICK H. K. SCHAAF	Sixth	District	l	Minneapolis
MRS.	G. H. GOEHRS S	eventh	Distric	ct	Saint Cloud
MRS.	C. L. Oppegaard	Eighth	District	t	Crookston
MRS.	JOHN K. BUTLER	Ninth	District	,	Cloquet

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In Memorian-Mrs. S. I.	HILLISMinneapolis

County Society Roster

Key to Symbols: *Deceased; †Affiliate, Associate or Life Members; ‡In Service; §Wife is Member of Woman's Auxiliary.

BLUE EARTH COUNTY MEDICAL SOCIETY

Regular meetings, last Monday of each month Annual meeting, May Number of Members: 51

	President Howard, M. IMankato	§ Franchere, F. WmLake Crystal Fugina, G. R	† Liedloff, A. G Mankato Lindblom, A. E No. Mankato Luck, Hilda Mankato
	Secretary Chalgren, Wm. SMankato	Haes, J. E	Mickelson, J. C. Mankato §†Miller, V. I. Mankato Morgan, H. O. Amboy § Penn, G. E. Mankato
\$	Aga, John	§ Hassett, R. GMankato § Hoeper, P. GMankato Howard, E. GMapleton § Howard, M. IMankato	§ Samuelson, L. GMankato † Schmidt, P. AMonroe, Oregon Schmitz, A. AMankato
-	Batdorf, B. NGood Thunder Butzer, J. AMankato Chalgren, Wm. SMankato Conley, R. HMankato	Huffington, H. L	§ Sjoding, J. DMankato Smith, P. MLake Crystal §†Sohmer, A. EMankato
1	†Dahl, G. A Mankato Dahlstet, J. P Mankato Denman, A. V Mankato	8 Kaufman, W. B	§ Stillwell, W. CMankato § Troost, H. BMankato Vezina, J. CMapleton Von Drasek, JosephMankato
- 8	Edwards, R. TColumbus, Ohio Engstrom, RobertMankato Eustermann, J. JMankato	§ Kemp, A. F	† Wentworth, A. G Mankato Williams, H. O Lake Crystal

BLUE EARTH VALLEY MEDICAL SOCIETY

Regular meetings, third Thursday of each month Annual meeting in November

Number of Members: 36				
President Zemke, E. E. Fairmont Secretary Boysen, Herbert Madelia Armstrong, R. S. Winnebago Barr, W. H	† Farrish, R. C. Sherburne § Gardner, V. H. Fairmont § Grogan, J. M. Ceylon Hanson, Lewis Frost Heimark, J. J. Fairmont † Holm, P. F. Sarasota, Fla. Hunt, R. C. Fairmont § Hunt, R. S. Fairmont † Hunte, A. F. Alhambra, Calif. Krause, C. W. Fairmont Lester, M. J. J. Truman McGroarty, J. Easton Medlin, C. F. Minneapolis § Mills, J. L. Winnebago	§ Misbach, Wm. D. Fairmont Parsons, R. L. Monterey Rollins, T. G. Elmore Rowe, W. H. Fairmont Smith, D. V. Blue Earth Smith, D. V. Blue Earth Smith, D. V. M. Kiester Thayer, E. A. Fairmont Vaughan, V. M. Truman Virnig, M. P. Wells Virnig, R. P. Wells Wandke, O. E. Fairmont Wilson, C. E. Blue Earth Zemek, E. E. Fairmont		

BROWN-REDWOOD-WATONWAN MEDICAL SOCIETY

Regular meetings, quarterly Annual meeting, May Number of Members: 37

Bregel, Fred L. St. James Secretary Fritsche, C. J. New Ulm Ayres, R. W. Little Rock, Ark. Benton, P. C. Minneapolis Bregman, O. B. St. James Black, W. A. New Ulm Bratrude, E. J. St. James Bregel, F. L. St. James Bregel, R. J. St. James Bregel, R. L. St. James Bregel, R. J. St. James Bregel, R. L. St. James Bregel, R. J. St. James Bregel, R. J. St. James Bregel, R. L. St. James Bregel, R. J. St. James Bregel,	S. J. Sleepy Eye A. L. New Ulm W. St. Louis Park A. D. St. James W. G. Springfield R. A. Springfield R. A. Vesta G. F. New Ulm J. J. E. Winthrop J. J. New Ulm A. New Ulm E. J. Springfield
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CAMP RELEASE DISTRICT MEDICAL SOCIETY Chippewa, Lac Qui Parle and Yellow Medicine Counties Regular meetings, April, May, September and October Annual meeting, October

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Number of Members: 28

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President Burns, F. MMilan Secretary	8 Hartfiel, H. A. Montevideo 8 Hauge, M. I. Clarkfield Holmberg, L. J. Canby 8 Hudec, E. R. Echo
Krystosek, L. AClara City	Hudsneth, Wm. T Madison
Anderson, C. A	§ Johnson, C. MClarkfield § Johnson, V. MDawson † Jordan, KathleenGranite Falls
Burns, F. MMilan Burns, M. AMilan Guilbert G. D. Legion Texas	Tordan, L. S

+000	Krystosek, L. AClara City Lee, Walter NClaremont, Calif.
è	Lima, L. R., Jr Montevideo
8	Lima, L. N., Ji.
8	Lundell, C. L Granite Falls
	Nelson, M. S Granite Falls
	Nelson, M. S
8	Owens, W. A Montevideo
	Comba
	Pertl, A. LCanby
	Roust, H. A
8	Roust, H. A
8	Schmidt, P. G., Jr Granite Falls
2	Smith, L. G Montevideo
8	Smith, L. U Montevideo
8	Westby, MagnusMadison
- 32	Westby, magnus

CLAY-BECKER COUNTY MEDICAL SOCIETY

Regular meetings-None

		Annual meeting, December Number of Members: 23		
1	President Larson, Arnold Detroit Lakes Secretary Dodds, Wm. C Detroit Lakes Aborn, W. H Hawlev Bloemendaal, E. J. G Lake Park Bottolfson, B. T Moorhead Cedarleaf, Cherry B Detroit Lakes	\$ Dodds, Wm. C Detroit Lakes Duncan, J. W Moorhead Ellingson, A. R Detroit Lakes Hagen, O. J Moorhead Humphrey, E. W Moorhead Ingebrigtson, E. K Big Springs, Texas Johnson, Olga H Moorhead Larson, Arnold Detroit Lakes Midthune, A. S Lake Park	§ Moberg, C. WDetroit Lakes Moe, A. E Moorhead § Oliver, James Moorhead § Otto, H. C Frazee § Rice, H. G Moorhead § Rutledge, L. H Detroit Lakes Saxman, Gertrude Olsen. Georgetown Simison, Carl Barnesville Thysell, F. A Moorhead Thysell, V. D Hawley	
	EAST CENTRAL MINNESOTA MEDICAL SOCIETY Anoka, Chisago, Isanti, Kanabec, Mille Lacs, Pine and Sherburne Counties Regular meetings, first Tuesday of February, April, June, August, October and December Annual meeting, first Tuesday in December Number of Members: 43			
	President Miller, E. W. Anoka Secretary Rochlike, A. B. Elk River Albrecht H. H. Chisago City Arends, A. L. Cokato Berge, H. L. Mora Beyer, E. F. Braham Blomberg, W. R. Princeton Bossert, C. S. Mora Bunker, B. W. Anoka Clothier, E. F. Elk River Dedolph, T. H. Braham Dredge, H. P. Sandstone Engel, R. C. H. Cambridge	§ Gully, R. J	§ Nordman, W. F. Mora Nygren, W. T. Braham O'Hanlon, J. A. Minneapolis § Roehlke, A. B. Elk River Sanderson, D. J. Princeton Schlesselman, G. H. Minneapolis § Sherman, H. T. Cambridge Spurzem, R. J. Anoka Stephan, E. L. Hinckley § Stratte, A. K. Pine City § Swensen, R. G. North Branch § Tesch, G. H. Elk River Trommald, Gladys Brainerd Vik, Melvin Onamia Waller, J. D. Pine City § Whitney, R. A. Cambridge	

FREEBORN COUNTY MEDICAL SOCIETY Regular meetings, every two months, third Thursday Annual meeting, December

7	Number of Members: 29	*
President Demo, R. AAlbert Lea	§ Donovan, D. LAlbert Lea § Egge, S. GAlbert Lea § Erdal, O. AAlbert Lea	§ Neel, Harry B Albert Lea § Nelson, C. E Albert Lea Nesheim, M. O Emmons
Secretary Steiner, L. EAlbert Lea	Folken, F. G	§ Palmer, C. FAlbert Lea † Palmer, W. LAlbert Lea † Palmerton, E. SMinneapolis
Barr, L. C Albert Lea Burns, Catherine . Albert Lea Butturff, C. R Freeborn †Calboun, F. W Albert Lea Demo, R. A Albert Lea	† Gullixson, A Longmont, Colo. § Hansen, T. M Albert Lea Kaasa, L. J St. Peter † Kamp, B. A Albert Lea † Leopard, B. A Brownsville, Texas Miller, Samuel Albert Lea	§ Person, J. P. Albert Lea § Prins, L. R. Albert Lea § Schmidt, R. F. Alden §† Schultz, J. A. Albert Lea § Steiner L. E. Albert Lea § Whitson, S. A. Albert Lea

GOODHUE COUNTY MEDICAL SOCIETY Regular meeting date, none Annual meeting, December Number of Members: 29

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President Larson, Oliver E. HZumbrota	Brusegard, J. FRed Wing Claydon, H. FRed Wing Dovenmuehle, R. HHastings	§ Juers, E. HRed Wing § Kimmel, G. CRed Wing § Larson, O. E. HZumbrota
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Hudson, George E. Minneapolis § Hultkrans, I. Minneapolis § Hultkrans, I. Minneapolis § Hultkrans, R. Minneapolis § Hultkrans, R. Minneapolis § Hurd, Annah Minneapolis Hutchinson, C. J. So. Boston, Mass. Hutchinson, D. W. Oak Terrace § Hymes, Chas. Minneapolis I distrom, L. G. Minneapolis I distrom, L. G. Minneapolis I ladstrom, L. G. Minneapolis I ladstrom, H. G. Minneapolis I verson, R. M. Minneapolis I verson, R. M. Minneapolis I verson, R. M. Minneapolis I lacobson, W. E. Minneapolis I acobson, M. E. Minneapolis I acobson, M. E. Minneapolis I acobson, M. E. Minneapolis I censen, H. C. Minneapolis I censen, H. C. Minneapolis I censen, R. A. Minneapolis I cohnson, A. B. Minneapolis I ohnson, E. W. Minneapolis I ohnson, J. W. Minneapolis I ohnson, J. W. Minneapolis I ohnson, M. R. Minneapolis I ohnson, N. T. Minneapolis I ohnson, N. P. Minneapolis I ohnson, Reuben A. Minneapolis I ohnson, Reuben A. Minneapolis I ohnson, Reuben A. Minneapolis I ohnson, W. P. Minneapolis I wald, W. H. Washington, D. C. I. Minneapolis I wald, W. H. Washington, D. C. I. Minneapolis I wald, W. H. Washington, D. C. I. Minneapolis I wald, W. H. Minneapolis I kalin, O. T. Minneapolis I kelby, G. M. Minneapolis I kelby, G. M. Minneapolis I kelby, G. M.	\$ Linner, Gunnar Minneapolis \$ Linner, John H. Minneapolis Linner, John H. Minneapolis Linner, Paul W. Minneapolis Lippman, E. S. Minneapolis Lithman, A. B. Minneapolis Lithman, A. B. Minneapolis Loff, E. C. O. Minneapolis Losefeil, R. C. O. Minneapolis Lower, Elizabeth C. Minneapolis Lower, Elizabeth C. Minneapolis Lowry, Thomas Minneapolis Lueck, W. W. Minneapolis Lueck, W. W. Minneapolis Lundbarg, Ruth I. Minneapolis Lundblad, S. W. Minneapolis Lundparen, A. C. Minneapolis Lundparen, A. C. Minneapolis Lundparen, A. C. Minneapolis Lundparen, A. C. Minneapolis MacDonald, D. A. Minneapolis MacDonald, D. A. Minneapolis MacDonald, D. A. Minneapolis MacDonald, D. A. Minneapolis MacFanland, C. O. Minneapolis MacMane, John S. Minneapolis MacMartinson, C. C. Minneapolis MacMartinson, C. C. Minneapolis MacMartinson, C. C. Minneapolis MacMartinson, C. C. Minneapolis MacMartinson, C. J. Wayzata Martinson, E. J. Wayzata Martinson, C. J. Wayzata Martin, Geo. R. Camp McCov, Wis. Martinson, C. J. Wayzata Martin, Geo. R. Camp McCov, Wis. Martinson, C. J. Wayzata Martin, Geo. R. Camp McCov, Wis. Martinson, C. J. Wayzata Martin, Geo. R. Camp McCov, Wis. Martinson, C. J. Wayzata Martin, Geo. R. Camp McCov, Wis. Martinson, C. J. Wayzata Martin, Geo. R. Saint Paul McCortney, Donald Saint Paul McCortney, Donald Saint Paul McCortney, Donald Saint Paul McCortney, Donald Saint Paul McCortney, John	\$ Neal, Joe M. Minneapolis Nelson, C. B. Minneapolis Nelson, C. B. Minneapolis Nelson, C. B. Minneapolis Nelson, H. S. Los Angeles, Cal. Minneapolis Nelson, H. S. Los Angeles, Cal. Minneapolis Nelson, L. S. Minneapolis Nelson, M. C. Minneapolis Nelson, W. I. Minneapolis Nelson, O. L. N. Minneapolis Nelson, O. L. N. Minneapolis Nelson, O. L. N. Minneapolis Nelson, W. I. Minneapolis Nesset, L. B. Minneapolis Noonan, Wm. J. Minneapolis Noran, A. S. N. Minneapolis Noran, M. J. Minneapolis Noran, M. J. Minneapolis Nordland, Martin Minneapolis Noralland, Martin Minneapolis Noran, M. J. Minneapolis Noran, M. J. Minneapolis Noran, M. J. Minneapolis Noran, M. J. Minneapolis Noran, M. Minneapolis No
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Rusten, E. M Minneapolis	Smith, Marie A Minneapolis	Vik, Arthur EMinneapolis
Rydburg, W. C Minneapolis	Smith, Norman M Minneapolis	§ Wahlquist, H. F Minneapolis
\$1St. Cyr, Harry W., Jr.	8 Smith Theo S Minneapolis	Waldron, C. W Minnea olis
8 St. Cur. K. T. Robbinsdale	Soderling, R. TMinneapolis	§ Wahlquist, H. F. Minneapolis § Waldron, C. W. Minneapolis § Wall, Carl R. Minneapolis § Walsh, Francis M. Minneapolis
St. Cyr. K. J	§ Solhaug, Saml. B Minneapolis	Walsh, Francis M. Minneapolis Walsh, Wm. T. Minneapolis Wangensteen, O. H. Minneapolis Ward, Percy A. Minneapolis Ward, Percy A. Minneapolis Watson, C. G. Minneapolis Watson, C. J. Minneapolis Weaver, M. Mc. Vancouver, B. C. Webb, Edger A. Vancouver, B. C.
Saliterman, B. I Minneapolis	Solvason, H. M Minneapolis	Wangensteen, O. H Minneapolis
Samuelson, SamlMinneapolis Sandt, Karl EMinneapolis	Spano, Jos. PMinneapolis	Ward, Percy AMinneapolis
§ Sandt, Karl EMinneapolis	Sponsel K H Minneapolis	Watson, C. GMinneapolis
Santord, R. A	t Spratt Chas N Minneapolis	Watson, C. J Minneapolis
8+Shoray A M Fort McClellan Ala.	8 Stahr. A. C	Weaver, M. Mc P. C.
8 Schaaf, F. H. K Minneapolis	Stanford, C. EMinneapolis	8 Webb. Edgar A Minneapolis
Sanford, R. A. Minneapolis Sanford, R. A. Minneapolis \$\$boroy, A. M. Fort McClellan, Ala. \$\$chaaf, F. H. K. Minneapolis \$\$chaaf, F. E. Minneapolis	§ State, DavidMinneapolis	Webb, Edgar A Minneapolis Webb, Roscoe C Minneapolis
Schaefer, W. GMinneapolis	I Staub, H. P. Ft. Leonard Wood, Mo.	Webber, R. J
† Scheldrup, N. H Minneapolis	8 Stelter I A Minneapolis	Weisberg, R. JMinneapolis
Scherling S S Minneapolis	\$1 Stennes, J. L. Camp Atterbury, Ind.	Wendland, J. PMinneapolis
& Schiele B C	Stewart, M. JMinneapolis	t West Catherine C Minneapolis
Schmidt, G. FMinneapolis	Stewart, Rolla I Minneapolis	2 Westphal, K. F Portland, Ore
Schmitt, S. C San Diego, Cal.	Stiegler, F. S. Nurenberg, Germany	\$†Wethall, Anton GMinneapolis
§ Schaaf, F. H. K. Minneapolis Schaar, F. E. Minneapolis Schaefer, W. G. Minneapolis Scheldrup, N. H. Minneapolis Scherer, L. R. Minneapolis Schering, S. Minneapolis Schering, S. Minneapolis Schiele, B. C. Minneapolis Schmidt, G. F. Minneapolis Schmidt, S. C. San Diego, Cal. Schneider, J. P. Minneapolis Schneider, R. A. New York, N. Y. Schottler, M. E. Minneapolis Schroeder, A. J. Minneapolis Schroeder, A. J. Minneapolis	smith, Homer R. Minneapolis Smith, Margaret I. Robbinsdale Smith, Mare A. Minneapolis Smith, Mare A. Minneapolis Smith, Norwan M. Minneapolis Smith, Norwan M. Minneapolis Smith, Theo. S. Minneapolis Soleting, R. T. Minneapolis Solvason, H. M. Minneapolis Stath, A. C. Hopkins Stathr, A. C. Hopkins Stathr, A. C. Hopkins State, David Minneapolis State, David Minneapolis State, David Minneapolis State, David Minneapolis State, L. A. Minneapolis Stevert, R. L. Lakeville Stelter, L. A. Minneapolis Stewart, M. J. Minneapolis Stewart, M. J. Minneapolis Stewart, M. J. Minneapolis Stewart, M. J. Minneapolis Strome, J. L. Camp Atterbury, Ind. Stewart, M. J. Minneapolis Strome, J. L. Minneapolis Strome, J. M. Minneapolis Stromgren, D. T. Minneapolis Stromgren, R. E. Minneapolis Swanson, V. F. Los Angeles, Calif. Sweetser, T. H. Minneapolis Minneapolis Sweetser, T. H. Minneapolis Sweetser, T. H. Minneapolis Sweetser, T. H. Minneapolis	§ Webb, Roscoe C. Minneapolis § Webber, R. J
Schottler M F Minneapolis	Stone, S. P	White A A Minneapolis
Schottier, M. E. Minneapolis Schultz, J. H. Minneapolis Schultz, P. J. Minneapolis Schultz, P. J. Minneapolis Schulze, Wm. M. Minneapolis	† Strachauer, A. C Minneapolis	White, S. MMinneapolis
Schultz, J. H Minneapolis	§ Strickler, J. H Minneapolis	White, W. DMinneapolis
Schultz, P. J Minneapolis	§ Strom, G. WMinneapolis	§ Whitesell, L. AMinneapolis
Schulze, Wm. M Minneapolis	8 Stromme Wm R Minneapolis	Widen, W. FMinneapolis
*+Schwyzer Gustay Minneapolis	Sturges, R. L Minneapolis	Wilder K W Minneapolis
* Scott. F. H	§†Subby, WalterMinneapolis	Wilder, R. L Minneapolis
Scott, H. GMinneapolis	Sukov, MarvinMinneapolis	Wilder, R. M., Jr Minneapolis
Seaberg, J. A Minneapolis	§ Swanson, R. EMinneapolis	Wilken, P. A Minneapolis
St Seashore, Gilbert Minneapolis	8 Sweetser H R Ir Minneapolis	Milleutt, C. E Phoenix, Ariz.
Seifert M. HExcelsion	Sweetser, T. HMinneapolis	Wilson P H Minneapolis
Seljeskog, S. R Minneapolis	Swetzer, S. EMinneapolis	Winther, Nora M. C Minneapolis
§ Semsch, R. DMinneapolis	§†Swendseen, C. GMinneapolis	Wipperman, F. F Minneapolis
Shandorf, J. F Minneapolis	§ Tangen, G. MMinneapolis	§ Witham, Carl A Minneapolis
Shaperman, Eva PMinneapolis	Taylor, Ios. H Minneapolis	Wittich, F. W Minneapolis
Shapiro S KMinneapolis	§ Tenner, R. J Minneapolis	Wohlrabe, A. C. Minneapolis
Sharp, D. V Minneapolis	§ Terry, Wm. S Minneapolis	Wolf. Alfred H Minneapolis
Shaw, H. AMinneapolis	§ Thomas, Geo. E Minneapolis	† Wood, Robert A Minneapolis
§ Shea, A. WMinneapolis	Thomas, Geo. H Minneapolis	Worden, R. E Columbus, Ohio
Sherman T. F. Minneapolis	8 Thompson, W. H Minneapolis	Wright, Wale S Minneapolis
8 Shronts, I. FMinneapolis	Thomson, J. M Minneapolis	Wyatt O S Minneapolis
Siegmann, Wm. C Minneapolis	§ Thorson, S. VMinneapolis	Wynne, H. M. N Minneapolis
Silver, J. DMinneapolis	\$ Tangen, G. M. Minneapolis Taylor, Jos. H. Minneapolis \$ Tenner, R. J. Minneapolis \$ Terry, Wm. S. Minneapolis \$ Thomas, Geo. E. Minneapolis † Thomas, Geo. H. Minneapolis † Thomas, Geo. H. Minneapolis † Thomes, A. Boyd Minneapolis † Thompson, W. H. Minneapolis † Thomson, J. M. Minneapolis † Thorson, S. V. Minneapolis † Thysell, D. M. Minneapolis † Tingdale, A. C. Minneapolis † Tinkham, R. G. Minneapolis † Tirtud, L. A. Minneapolis	\$ White, A. A. Minneapolis \$ White, S. M. Minneapolis \$ White, W. D. Minneapolis \$ Whitesell, L. A. Minneapolis \$ Wilcox, A. E. Minneapolis \$ Wilcox, A. E. Minneapolis \$ Wilder, R. W. Minneapolis \$ Wilder, R. L. Minneapolis \$ Wilder, R. M., Jr. Minneapolis \$ Wilken, P. A. Minneapolis \$ Winther, Nora M. C. Minneapolis \$ Winther, Nora M. C. Minneapolis \$ Witham, Carl A. Minneapolis \$ Witham, Carl A. Minneapolis \$ Witham, Carl A. Minneapolis \$ Wohlrabe, A. C. Minneapolis \$ Wohlrabe, A. C. Minneapolis \$ Wohlrabe, A. C. Minneapolis \$ Worden, R. E. Columbus, Ohio \$ Wright, Wale \$ Minneapolis \$ Wright, Wale \$ Minneapolis \$ Wright, Wale \$ Minneapolis \$ Wyatt, O. S. Minneapolis \$ Ylvisaker, R. S. Minneapolis \$ Ylvisaker, R. S. Minneapolis \$ Ylvisaker, R. S. Minneapolis \$ Minneap
Simons, J. H Minneapolis	8 Tinkham R G Minneapolis	g roerg, Otto W Minneapons
Simpson F. De W Minneapolis	Titrud, L. A	§ Zaworski, Leo A Minneapolis
Sinykin, M. BMinneapolis	Titrud, L. A	Zierold, A. A Minneapolis
Siperstein, D. M Minneapolis	Todd, Romona LMinneapolis	Zinter, F. A
§ Sisterman, T. JMinneapolis	§ Trach, B. BMinneapolis	§ Ziskin, Thos,Minneapolis
Schultz, P. J. Minneapolis Schultze, Wm. M. Minneapolis Schwartz, V. J. Minneapolis Schwartz, V. J. Minneapolis Schwartz, V. J. Minneapolis Schwartz, V. J. Minneapolis Scott, F. H. Minneapolis Scott, H. G. Minneapolis Scaberg, J. A. Minneapolis Scaberg, J. A. Minneapolis Scaberg, Gilbert Minneapolis Scaberg, M. M. Excelsior Scaleskog, S. R. Minneapolis Schapernan, Eva P. Minneapolis Shapernan, Eva P. Minneapolis Shapiro, M. J. Minneapolis Shaw, H. A. Minneapolis Sher, Lewis Minneapolis Sher, Lewis Minneapolis Shernan, L. F. Minneapolis Siegnann, Wm. C. Minneapolis Siegnann, Wm. C. Minneapolis Siegnann, J. H. Minneapolis Simmonson, D. B. Minneapolis Simpson, E. De W. Minneapolis Simpson, E. De W. Minneapolis Sinykin, M. B. Minneapolis Siperstein, D. M. Minneapolis Siperstein, D. M. Minneapolis Siperstein, D. M. Minneapolis	-SWIFT-MEEKER COUNTY MEDICA	AL SOCIETY

KANDIYOHI-SWIFT-MEEKER COUNTY MEDICAL SOCIETY Regular meetings, third Thursday of each month Annual meeting, December Number of Members: 45

President Proeschel, R. K. Willmar Proeschel, R. K. Willmar Secretary Jacobs, D. L. Willmar Frederickson, Guy U. Y. Willmar Frisch, F. P. Willmar Frost, E. H. Willmar Giere, S. W. Benson Giere, S. W. Gilman, L. C. Willmar Giere, S. W. Gilman, L. C. Willmar O'Connor, D. C. Eden Valley Gilman, L. C. Willmar O'Connor, D. C. Kerkhoven
Anderson, R. E. Willmar Arnson, J. M. Benson Guy, Jack A. New London Peterson, W. E. Willmar Bosland, H. G. Willmar Chadbourn, W. A. Litchfield Daignault, Oscar Benson Hodapp, R. J. Willmar Proeschel, R. K. Willmar Rygh, H. N. Atwater Danielson, Lennox Litchfield Tacobs, D. L. Willmar Solem, F. N. S. Spicer Dille, D. E. Litchfield Jacobs, J. C. Willmar Sutherland, W. H. Benson Proested, R. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. K. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Proeschel, R. W. Willmar Solem, F. N. S. Spicer Sutherland, W. H. Benson Proeschel, R. W. Willmar Proeschel, R. W.

LYON-LINCOLN COUNTY MEDICAL SOCIETY Regular meetings, last Tuesday of each month Annual meeting, last Tuesday of October Number of Members: 28

President Ferguson, W	r. C.	Walnut	Grove	
Secretary Purves. G.	н.	Het	ndricks	

‡	Akester, Benson, Eckdale,	L. M.	(Camp	Rucker	, Ala.
	Ferguson Ford, B	. W.	C		Walnut	Grove

	Friedell,	Geo	rge								Iv	anho	00
†	Gray, F. Hedenstr	D.	p'	ċ	• •		• •			. !	Ma:	rsha	#
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Hermanson, P. E. Hendricks Hoidale, A. D. Tracy Johnson, C. Percy Tyler Kreuzer, T. C. Marshall Monson, L. J. Canby Murphy, J. E. Marshall	Peterson, K. A	Smith, Lloyd A Tyler Thompson, C. O. Hendricks Vadheim, A. L. Tyler Valentine, W. H. Tracy Wolstan, S. D. Minneota Workman, W. G. Tracy Yaeger, W. W. Marshall
	cLEOD COUNTY MEDICAL SOCIET ular meeting, third Thursday of each mon Annual meeting, January Number of Members: 24	Y
President Kallestad, L. L. Brownton Secretary Selmo, J. D. Norwood Brink, D. M. Hutchinson Clement, J. B. Lester Prairie Goss, H. C. Glencoe Goss, Martha D. Glencoe	\$ Gridley, J. W. Glencoe \$ Grint L. Ft. Lewis, Wash. Glencoe \$ Holm, H. H. Glencoe \$ Jensen, A. M. Brownton \$ Kallestad, L. Brownton Klima, W. W. Stewart Leitschuh, L. F. Winsted \$ Lippmann, E. W. Hutchinson \$ McMahon, M. J. Green Isle \$ Neumaier, Arthur Glencoe	§ Peterson, K. H. Hutchinson Sahr, W. G. Hutchinson Scholpp, O. W. Hutchinson § Selmo, J. D. Norwood § Sheppard, C. G. Hutchinson † Shraber, E. E. Watertown § Smith, G. R. Hutchinson § Smyth, J. Lester Prairie § Trucsdale, C. W. Glencoe § Trutna, T. J. Silver Lake
	OWER COUNTY MEDICAL SOCIET rular meeting, last Thursday of each mo Annual meeting, December Number of Members: 31	Ynth
President Twiggs, L. F. Austin Sccretary Rosenthal, F. H. Austin Anderson, D. P. Austin Anderson, H. J. Austin Barber, T. E. Austin Cronvell, B. J. Austin Fisch, H. M. Austin Flaragan, L. G. Austin Grise, W. B. Austin	Havens, J. G. W. Austin † Hegge, O. H. Austin § Hegge, R. S. Austin † Henslin, A. E. Cresco, Iowa § Hertel, G. E. Austin ‡ Leck, P. C. Austin ‡ Lewis, J. S., Jr. Bremerton, Wash. Kommen, P. A. Austin McKenna, Elizabeth M. Austin McKenna, J. K. Austin Melzer, G. R. Lyle Morse, M. P. Le Roy	§ Peterson, S. C. Austin § Robertson, P. A. Austin § Rosenthal, F. H. Austin § Sargent, E. C., Jr. Austin Schneider, P. J. Adams § *†Schottler, G. J. Dexter § Seery, T. M. Austin § Sheedy, C. L. Austin § Twiggs, L. F. Austin § Van Cleve, H. P. Austin § Wilson, F. C. Austin § Wright, R. R. Austin
	ET-LE SUEUR COUNTY MEDICAL S Regular meeting, not scheduled Annual meeting, December Number of Members: 27	OCIETY
President Grimes, B. P. St. Peter Secretary Wilcox, G. C. St. Peter \$\frac{3}{4}\text{Aitkens, H. B. LeCenter} \text{Bodaski, A. A. LeCenter} \text{Branham, D. S. St. Peter} \text{\$\frac{2}{3}} \text{Canfield, W. W. St. Peter} \text{\$\frac{2}{3}} \text{ Covell, W. W. St. Peter} \text{\$\frac{2}{3}} \text{ Covell, W. W. St. Peter}	§ Curtis, R. A. LeCenter § Ericson, Swan Le Sueur § Grimes, B. P. St. Peter § Hiniker, P. J. Le Sueur § Johnson, H. C. North Mankato Kabrick, O. A. St. Peter § Larson, M. H. Nicollet § Lenander, M. E. St. Peter § Nilson, H. J. North Mankato 8 Olmanson, E. G. St. Peter § Olson, D. C. Gaylord	Crwoll, H. S. Decorah, Iowa Rudie, C. N. St. Peter Schulberg, V. A Arlington Sherman, A. G. Minneapolis Sjostrom, L. E. St. Peter Sonnesyn, N. N. Le Sueur Strathern, C. S. St. Peter Traxler, J. F. Henderson Wilcox, G. C. St. Peter Wohlrabe, C. F. North Mankato
Regul	FON-FILLMORE-DODGE COUNTY M ar meetings, first Wednesday every odd nnual meeting, first Wednesday in Novemb	EDICAL SOCIETY month oer
President O'Leary, P. A. Rochester Secretary Carryer, H. M. Rochester Achor, R. W. P. Rochester Adson, A. W. Rochester Adson, A. W. Rochester Adson, A. W. Rochester Adson, A. W. Rochester Ahlfes, J. J. Caledonia Aldrich, R. A. Rochester Amberg, Samuel Rochester Amberg, Samuel Rochester Anderson, A. D. Rochester Anderson, A. D. Rochester Anderson, M. J. Rochester Anderson, M. J. Rochester Anderson, M. G. Rochester Anderson, M. G. Rochester Anderson, M. B. Rochester Anderson, M. Rochester Bain, R. C. Rochester Bain, R. C. Rochester Bair, H. L. Rochester Bair, H. L. Rochester Baker, H. R. Hayfield Baker, P. L. Rochester Ball, W. P. Rochester Ball, W. P. Rochester Ball, W. P. Rochester	Number of Members: 584 Bannon, W. G. Rochester Barber, J. R. Rochester Barker, N. W. Rochester Barrles, A. R. Rochester Bartholomew, L. G. Rochester Bastholomew, L. G. Rochester Bastron, J. A. Rochester Bealer, D. Rochester Bealer, C. H. Rochester Bealer, J. W. Rochester Beeker, S. W., Jr. Rochester Belding, H. H. H. Rochester Belding, H. H. H. Rochester Bender, L. F. Rochester Bender, L. F. Rochester Bender, W. H. Rochester Bender, M. J. Rochester Bennett, W. A. Rochester Bennett, W. A. Rochester Benua, R. S. Rochester Benua, R. S. Rochester Benua, R. S. Rochester Berns, James Rochester Berkman, D. M. Rochester Berkman, J. M. Rochester Black, W. H. Rochester Black, W. J. Rochester Black, W. J. Rochester Block, W. J. Rochester Block, W. J. Jr. Rochester Block, W. J. Jr. Rochester	8 Bostwick, J. L. Rochester 8 Boucek, R. J. Rochester 9 Boyd, D. A., Jr. Rochester 9 Braasch, J. W. Rochester 9 Braasch, J. W. Rochester 9 Brandenburg, R. O. Rochester 8 Brandenburg, R. O. Rochester 8 Bresette, J. E. Rochester 9 Brickley, P. M. Rochester 9 Brickley, P. M. Rochester 9 Broders, A. C. Temple, Texas 9 Brown, J. R. Rochester 9 Brunsting, L. A. Rochester 9 Brunsting, L. A. Rochester 9 Burke, E. C. Jr. 10 Burker, E. O., Jr. 11 Burker, E. C. Rochester 12 Burker, E. C. Rochester 13 Burkes, E. C. Rochester 14 Burker, E. C. Rochester 15 Buther, W. A. Rochester 16 Buther, W. A. Rochester 17 Buther, W. Rochester 18 Buther, D. B. Houston, Texas 18 Burkes, E. C. Rochester 19 Buther, D. B. Houston, Texas 10 Buther, D. B. Houston, Texas 10 Buth, J. W. Rochester 10 Buth, J. W. Rochester 11 Burker, D. B. Houston, Texas 12 Buth, J. W. Rochester 13 Buth, J. C. Rochester 14 Carriol, D. Rochester 15 Carriol, T. T. Rochester 16 Carroll, T. T. Rochester 17 Carroll, T. T. Rochester 18 Carroll, T. T. Rochester 18 Carroll, T. T. Rochester 18 Carroll, T. T. Rochester

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Cashin, J. CRochester
Unance. D. P
Childs, D. S., JrRochester
§ Childs, D. S., JrRochester Chriss, J. WRochester Christensen, N. ARochester
Christensen, N. ARochester
Christie, D. PRochester
S Christoferson, L. A. Fargo, N. D. Clagett, O. T. Rochester Clark, L. W. Spring Valley Clark, III, P. L. Rochester Chaffield
Clagett, O. TRochester
Clark, L. WSpring Valley
Clark, III, P. LRochester
Clifton, T. A. Chatfield Cole, J. P. Rochester Cook, J. R. Rochester Cook, J. R. Rochester Rochester
Cole, J. PRochester
Cole, J. P. Rochester Cook, J. R. Rochester S Cooley, J. C. Rochester
Cook, J. R
& Cooley, J. CRochester
Couper, I. S. Rochester Counseller, V. S. Rochester Countin, R. F. Rochester Courtin, R. F. Rochester
8 Corbin, K. B Rochester
Counseller, V. SRochester
Courtin, R. FRochester
& Coventry, M. BRochester
& Craig, W. MRochester
§ Crenshaw, J. L., Jr Rochester
§ † Crenshaw, J. L Santord, Fla.
Crumpacker, E. LRochester
Culp, O. S
Curtiss, R. K
§ Dahlin, D. C
a Daly, David
Daugherty, G. WRochester
\$ Cooper, I. S. Rochester Counseller, V. S. Rochester Counseller, V. S. Rochester Courtin, R. F. Rochester Courtin, R. F. Rochester Courtin, R. F. Rochester Craig, W. M. Rochester Craig, W. M. Rochester Sterenshaw, J. L., Jr. Rochester Sterenshaw, J. L., Jr. Rochester Culp, O. S. Rochester Culp, O. S. Rochester Culp, O. S. Rochester Daly, David Rochester Daly, David Rochester Daly, David Rochester Daly, David Rochester Davis, A. C. Rochester Davis, A. C. Rochester Davis, G. D. Rochester Davis, G. D. Rochester Davis, R. M. Rochester Davis, R. M. Marion, Ind. Decaring, Wm. H., Jr. Rochester Devine, K. D. Rochester Diessner, G. R. Rochester
Davis, G. D
Davis, I. G
Davis, R. E
Davis, R. MMarion, Ind.
§ Dearing, Wm. H., Jr. Rochester DeForest, R. E. Rochester Devine, K. D. Rochester Devine, K. D. Rochester Didoct, J. W. Rochester Didoct, J. W. Rochester Dilard, P. G., Jr. Rochester Dilard, P. G., Jr. Rochester Dixon, C. F. Rochester
DeForest, R. E
Devine, K. D
DeWeerd, J. H. Rochester Didcoct, J. W. Rochester Diessner, G. R. Rochester
§ Didcoct, J. WRochester
Bidcoct, J. W. Rochester Dilssner, G. R. Rochester Dillard, P. G. Jr. Rochester Bixon, C. F. Rochester Rochester
Billard, P. G., Jr Rochester
Bixon, C. F
S Dillard, P. G., Jr. Rochester S Dixon, C. F. Rochester Doane, J. C. Rochester Dockerty, M. B. Rochester
B Dockerty, M. B. Rochester Dodge, H. W., Jr., Rochester Dolder, F. C. Eyota
§ Dodge, H. W., Jr.,Rochester
* Dolder, F. CEyota
Donald, T. C., JrRochester
§ Donoghue, F. ERochester
Dornberger, G. RRochester
§ Douglass, B. ERochester
§ Doust, W. C
† Drake, F. ALanesboro
† Drips, D. GRochester
§ Diessner, G. R. Rochester Dillard, P. G., Jr. Rochester Doane, J. C. Rochester Doane, J. C. Rochester Doane, J. C. Rochester B. Dockerty, M. B. Rochester B. Dodge, H. W., Jr., Rochester Dolder, F. C., Jr. Rochester Donald, T. C., Jr. Rochester B. Donoghue, F. E. Rochester B. Dornberger, G. R. Rochester B. Doust, W. C. Rochester Douglass, B. E. Rochester B. Doust, W. C. Rochester Drake, F. A. Lanesboro Drips, D. G. Rochester Druncan, D. K. Rochester Duncan, D. K. Rochester Duncan, D. K. Rochester B. Dunlap, R. W. Rochester B. Dushane, J. W. Rochester E. B. C. Rochester S. C. Rochester B. C. Rochester S. Dunlap, R. W. Rochester S. Dushane, J. W. Rochester E. B. Rochester S. Ede, Mitchell Rochester E. Rochester E. B. Rochester E. Rochester
Duncan, D. KRochester
8 Dunlap, R. WRochester
§ DuShane, J. WRochester
8 DuShane, J. W. Rochester 8 Eaton, L. M. Rochester 8 Eby, L. G. Rochester 8 Ede, Mitchell Rochester 8 Ede, Mitchell Rochester
§ Eby, L. G. Rochester Edwards, J. E. Rochester Edwards, J. E. Rochester S Elkins, E. C. Rochester S Ellins, F. H. Rochester Enmett, J. L. Rochester Epperson, D. P. Rochester Erick, J. B. Rochester Esser, R. A. Rochester Esser, R. A. Rochester Esser, J. E. Rochester Estes, J. E. Rochester
§ Ede, MitchellRochester
Edwards, J. E
& Elkins, E. C
Edwards, J. E. Rochester Elkins, E. C. Rochester Ellis, F. H. Rochester
§ Emmett, J. L
Epperson, D. P. Rochester Erich, J. B. Rochester Erickson, D. J. Rochester Esser, R. A. Rochester
Erich, J. B
Erickson, D. J
Esser, R. ARochester § Estes, J. ERochester
& Estes, J. E
\$†Eusterman, G. B. Rochester † Evarts, A. B. Rochester \$ Faber, J. E. Rochester \$ Falsetti, F. P. Rochester
† Evarts, A. BRochester
Faber, J. E
g Faisetti, F. PRochester
Esser, R. A. Rochester \$ Estes, J. E. Rochester \$ t Essets, J. E. Rochester Evarts, A. B. Rochester \$ Faber, J. E. Rochester \$ Faber, J. E. Rochester \$ Falucener, Albert, Jr. Rochester \$ Faulkner, I. W. Rochester \$ Faulkner, I. W. Rochester Feldman, F. M. Bronxville, N. Y. \$ Ferris, D. O. Rochester Figi, F. A. Rochester
Foldman F M Beanwille N V
& Foreig D O Pochector
Fini F A Pochester
§ Falsetti, F. Rochester § Faulkner, J. W. Rochester § Faulkner, J. W. Rochester Feldman, F. M. Bronxville, N. Y. § Ferris, D. O. Rochester Figi, F. A. Rochester § Fitzpatrick, T. B. Rochester § Flanagan, J. R. Rochester § Foulk, W. T. Rochester § Foulk, W. T. Rochester § Frank, L. M. Rochester § Fredman, M. Rochester § Fredman, M. Rochester
8 Floregge T P Pochester
For F T Pochester
8 Foulle W T Rochester
8 Frank I M Rochester
Freedman, M. ARochester
§ Freedman, M. A Rochester Freeman, J. G Rochester § Fricke, R. E Rochester § Fuller, Josiah Rochester
Fricke, R. ERochester
Fuller, JosiahRochester
\$†Gambill, C. MRochester
Fricke, R. E. Rochester Fuller, Josiah Rochester Gambill, C. M. Rochester Gambill, E. E. Rochester
Gastineau, C., F Rochester
Geraci, J. ERochester
& Ghormley, K. O Rochester
Geraci, J. E
Gibb, R. PRochester
Gibb, R. P
Gibson, M. MRochester
&+Giffin, H. Z Rochester
†Giffin, H. Z Rochester Gifford, R. W., Jr Rochester
Gilbert, L. W
Gilbert, L. W
Goldstein, N. PRochester
Goldstein, N. P Rochester
§ Good, C. A., JrRochester § Goodlad, J. HRochester
Goldstein, N. P. Rochester Good, C. A., Jr. Rochester Goodlad, J. H. Rochester Graham, G. G. Rochester
Geraci, J. E. Rochester S. Ghormley, K. O. Rochester Ghormley, R. K. Rochester Ghormley, R. K. Rochester Gibb, R. P. Rochester Gibbson, R. G. Rochester Gibson, M. M. Rochester Gifford, R. W. Jr. Rochester Gilbert, L. W. Rochester Gilbert, L. W. Rochester Gilbert, L. W. Rochester Gilbert, L. W. Rochester Goldstein, N. P. Rochester Goldstein, N. P. Rochester Goodlad, J. H. Rochester Goodlad, J. H. Rochester Graham, G. G. Rochester Gray, H. K. Rochester

Greene, L. FRochester	
Boswell, New Mexico	
Criffith F P Rochester	
Grindlay, J. H	
Gross, J. B	
Habein H C	
Haddy, F. J	
nagedorn, A. D Rochester	
Haines, S. F	
Hallberg, O. ERochester	
Hallenbeck, G. ARochester	
Hanlon, D. GRochester Hanson, H. HRochester	
Hanson, N. ORochester	
Hanson, S. M Sparta, Wis.	
Harrington, S. WRochester	
Harrington, S. WRochester Harris, L. ERochester	
Hattox, I. S	
Hauch, E. WRochester	
Havens, F. ZRochester Hayes, D. WNew Orleans, La.	
8 Hayes, D. WNew Orleans, La. 8 Haynes, A. LRochester 8 Healy, M. MRochester	
Healy, M. MRochester	
Helland, G. MSpring Grove	
Helland, J. W Spring Grove	
§†Helmholz, H. FRochester §†Hempstead, B. ERochester	
Hench, P. SRochester	
Menderson, E. D Rochester	
§ Henderson, J. WRochester	
§ Herbert, C. M., JrRochester	
Henderson, M. S Rochester Herbert, C. M., Jr Rochester Herrell, W. E Rochester	
8 †Hewitt, R. M	
† Heyerdale, O. CRochester § Hightower, N. C., JrMinneapolis	
8 Hill I R Rochester	
Hills O W Rochester	
8 Hilsaheck I R Rochester	
§ Hines, C. R., Jr.,Rochester § Hines, Edgar A., JrRochester	
8 Hodgson C H Rochester	
§ Hodgson, I. R	
Hoffman, M. SRochester	
§ Holland, C. RRochester Hollenhorst, R. WRochester	
§ Holman, C. BRochester	
§ Holman, C. B. Rochester § Holt, A. H. Rochester § Hood, R. T. Rochester	
8 Hood, R. T Rochester 8 Horton, B. T Rochester	
8 Horton, B. TRochester 8 Howell, Llewelyn PRochester	
W. C Rochester	
O TT A TO D. L.	
§ Hunter, I. S	
8 Hunter, R. C Rochester 8 Ivins, J. C Rochester	
§ Ivins, J. C	
§ Jackman, R. JRochester	
§ Jackman, R. JRochester § Jampolis, R. WRochester	
§ Janes, J. M	
Johnson, A. BRochester	
§ Johnson, C. E Rochester	
§ Johnson, D. ARochester § Johnson, H. ARochester	
8 Tohnson H W Rochester	
Johnson, R. BLanesboro	
9 Johnson, W. ERochester	
\$\$Jones, George W. Ft. Leavenworth, Kan.	
Jones, R. F	
§ Jordan, R. A	
§ Josselson, A. J	
§ Judd, E. S., JrRochester § Judge, D. JRochester Karlen, MarkleRochester	
5 Judd, E. S., Jr. Rochester 8 Judge, D. J. Rochester Karlen, Markle Rochester 5 Keating, F. R., Jr. Rochester 8 Keating, J. U. Rochester	
§ Keating, F. R., JrRochester § Keating, J. URochester	
Keating, J. U Rochester Keith, H. M Rochester	
§†Keith, N. MRochester	
Keith, H. M. Rochester \$\dagger{\partial} \text{Keith}, N. M. Rochester \$\text{Kelley}, E. P. Rochester \$\text{Kelly}, A. H. Rochester	
§ Kelley, E. P. Rochester Kelly, A. H. Rochester § Kelsey, J. R. Rochester Kennedy, R. L. J. Rochester Kennedy, T. V. A. Rochester Kenney, F. D. Rochester § Kernohan, J. W. Rochester § Kiely, J. M. Rochester	
& Kennedy, R. L. I Rochester	
Kennedy, T. V. ARochester	
§ Kenney, F. DRochester	
8 Kernohan, J. W Rochester	
§ Kiely, J. M	
Kimbrough, R. F Rochester	
\$ Keating, F. R., Jr. Rochester \$ Keating, J. U. Rochester \$ Keith, H. M. Rochester \$ Keith, H. M. Rochester \$ Keith, N. M. Rochester \$ Keiley, E. P. Rochester Kelly, A. H. Rochester \$ Kelley, J. R. Rochester \$ Kenedy, R. L. J. Rochester \$ Kennedy, T. V. A. Rochester \$ Kennedy, T. V. Rochester \$ Kirly, J. M. Rochester \$ Kirly, J. M. Rochester \$ Kirly, J. M. Rochester \$ Kirly, T. J., Jr. Rochester \$ Kirly, T. J., Jr. Rochester \$ Kirklin, B. R. Rochester \$ Kirkli	
§ Kirklin, B. RRochester	

0 T** 1 1** T TT
§ Kirklin, J. WRochester § Kleckner, M. SRochester
Kleckner, M. SRochester Knight, C. DRochester
Knutson, L. A Spring Grove
Knutson, R. CRochester
Knutsson, K. HRochester
& Koelsche, G. A Rochester & Koza, D. W Rochester
§ Krakowka, G. FRochester
§ Kroboth, F. J., JrRochester
Krout, R. M
Krusen, F. HRochester Kunkel, Wm. M., JrRochester
Kvale, W. FRochester
8 Lake C. F Rochester
& Lamp, C. B., Jr Rochester
& Lay, C. LRochester
§ Lazarte, J. ARochester
Lazarte, J. A. Rochester Leddy, E. T. Rochester Lee, M. J., Jr. Tyler, Texas
6 T 1441 TT T
8 Linscomb P R Rochester
§ Litin, E. M
Livermore, G. R. Rochester & Lofgren, K. A. Rochester \$ Lofgren, A. Rochester \$ Logan, Archibald H. Rochester \$ Logan, G. B. Rochester
§†Logan, Archibald HRochester § Logan, G. BRochester
§ Logan, G. B
Longo, V. JRochester
8 Love, J. G
& Lundy, J. SRochester
MacCarty, C. S. Rochester \$\forall MacCarthy, W. C. Rochester \$\forall MacCarthy, W. C. Rochester \$\forall MacFarlane, E. B. Rochester \$\forall MacKenzie, D. A. Rochester \$\forall MacLean, A. R. Rochester \$\forall Madison, M. S. Rochester \$\forall Magath, T. B. Rochester
§ MacFarlane, E. BRochester
MacFarlane, E. BRochester MacKenzie, D. ARochester MacLean, A. RRochester Madison, M. SRochester
§ MacLean, A. RRochester § Madison, M. SRochester § Magath, T. BRochester
§ Magath, T. BRochester
Manger, W. M
& Mankin, H. W Rochester
8 Markle, G. B. IV Rochester
g Martens, 1. G Rochester
8 Martin, G. M
Martin, W. J Rochester Masson, D. M Rochester
§†Masson, J. C Rochester
Mathieson, D. R Rochester
Maxeiner, S. R., JrRochester Mayne, J. GRochester
Mayne, J. GRochester
Maytum, C. KRochester
Maytum, C. K Rochester McBean, J. B Rochester
§ McBurney, R. P. Rochester McConahey, W. M., Jr. Rochester § McCormack, L. J. Rochester § McDonald, J. R. Rochester McIntire, S. F. Rochester McKaig, C. B. Pine Island § McMorris, R. O. Rochester McMorphyshop, R. Rochester § McNeill, J. I. Rochester McNeill, J. I. Rochester McWorter, H. E. Rochester
McConahey, W. M., Jr Rochester McCormack, L. J Rochester McDonald, J. R Rochester
McDonald, J. RRochester
McIntire, S. F
McMorris, R. ORochester
McNaughton, R. ARochester
McNaughton, R. A Rochester McNeill, J. I Rochester McWhorter, H. E Rochester
McWhorter, H. ERochester
Merritt, W. ARochester Miller, E. MRochester
Miller, E. M. Rochester Miller, R. D. Rochester
8 Millikan, C. H Rochester
Mills, S. DRochester Moersch, F. PRochester
Moersch, H. JRochester
Moersch, R. URochester
Monsour Kachester
Montgomery, Hamilton Rochester
Montgomery, HamiltonRochester Morlock, C. GRochester Morris, C. RDallas, Texas Morrison R. W. Rochester
9 MOTTISON, R. W ROCHESTET
\$1 Morton, G. H Scott Air Base, Ill.
Mussey, M. E Rochester Mussey, W. C
Mussey, M. E. Rochester Mussey, W. C. Rochester Mussey, W. C. Rochester Myers, C., III. San Antonio, Tex. Myers, T. T. Rochester Myers, W. P. L. Rochester Myre, T. T. Rochester Myre, T. T. Rochester Nebring, J. P. Preston Nelson, P. A. Rochester Nelson, P. A. Rochester Nichols, D. R. Rochester
Myers, C., IIISan Antonio, Tex. Myers, T. T
Myers, W. P. L. Rochester Myre, T. T. Rochester Nehring, J. P. Preston Nelson P. A. Rochester
8 Myre, T. T. Rochester Nehring, J. P. Preston
Nelson, P. ARochester
Neison, P. A
§ Nichols, D. R. Rochester Nicholson, J. W. Rochester Norris, N. T. Caledonia Norval, M. A. Rochester
Norris, N. T
8 O'Cain, R. K. Rochester
8 O'Leary, P. ARochester
§ O'Shaughnessy, E. JRochester
§ Odel, H. MRochester
§ Nichols, D. R. Rochester Nicholson, J. W. Rochester Norris, N. T. Caledonia Norval, M. A. Rochester O'Cain, R. K. Rochester O'Chary, P. A. Rochester O'Chaughnessy, E. J. Rochester O'Ghdyn, R. Rochester O'Chester O'Chary, P. A. Rochester O'Chary, P. A. Rochester O'Chary, P. A. Rochester O'Chester, A. M. Rochester Olive, J. T. Jr., Rochester Olsen, A. M. Rochester
Ulson, E. A Pine Island
Olson, G. EWest Concord
Management Mentgive

O I I I I I I I I I I I I I I I I I I I	9 Deale T D Beckerten	\$†Sutherland, C. GRochester
Onsgard, L. K	§ Rosin, J. D	§ Takaro, TimothyRochester
Openshaw, C. R Rochester	Rothem, U. M	§ Taylor, A. BRochester
Osborn, J. E	8 Routley, E. FRochester	Taylor, B. ELincoln, Neb.
Osternolm, R. SRochester	Routley, E. F. Rochester Rovelstad, R. A. Rochester Rucker, C. W. Rochester Rushton, J. G. Rochester	8 Taylor I. M Rochester
Dochester	8 Puchton T G Pochester	8 Taylor P W Ir Rochester
Parker, R. L		Taylor, R. W., JrRochester Teitgen, R. EMilwaukee, Wis.
Parkin Thamas W Rochester	8 Rydell I R Rochester	8 Thelen F P Rochester
§ Parsons, W. B., JrRochester	Rydell, J. R Rochester Rynearson, E. H Rochester	8 Thompson, G. I Rochester
8 Patton M. M. Ir Rochester	Salassa, R. MRochester	Tihen, E. N
Patton, M. M., JrRochester Patton, M. M., JrEugene, Ore.	&tSanford, A. HRochester	& Tillisch, J. H
& Paulson, G. S Rochester	Sauer, W. G	Tobin, J. R., JrRochester
8 Paulson, J. ARochester	8 Saunders R H. Ir Rochester	Tompkins, R. GRochester
Paulson, J. A. Rochester Paynter, C. R. Rochester Peabody, H. D., Jr. Rochester Peabody, H. D., Jr. San Diego, Cal.	Saxon, R. F., Jr. Rochester Sayre, G. P. Rochester Scanlon, P. W. Rochester	Teitgen, R. E. Milwaukee, Wis. Thelen, E. P. Rochester Thompson, G. J. Rochester Tihen, E. N. Rochester Töbin, J. H. Rochester Tobin, J. R., Jr. Rochester Tompkins, R. G. Rochester Uiblein, Alfred Rochester Uiblein, Alfred Rochester Utz, J. P. Rochester Utz, J. P. Rochester
Peabody, H. D., JrRochester	Sayre, G. PRochester	§ Upson, Mark, JrRochester
Peabody, H. D., Jr. San Diego, Cal.	§ Scanlon, P. WRochester	§ Utz, J. PRochester
Pemberton, J. deJRochester	9 Scheiney, C. H Kochester	Lynbrook, Long Island, N. Y.
Pemberton, J. deJ. Rochester Pender, J. W. Rochester Perry, Harold Rochester	Schell, R. FRochester Scherbel, A. LCleveland, Ohio	§ Vadheim, L. ARochester
Perry, Harold	Scherbel, A. L Cleveland, Ohio	§ VanHerik, MartinRochester
Peters, G. A	Schmidt, H. WRochester Scholz, D. ARochester	VanVleet M F Pochester
Peterson W H Spring Volley	S Scribner P H Pochester	8 Vaughn I D Rochester
2 Phares W S Pachester	8 Scudamore H H Pochester	8 Wagener H P Rochester
Peters, G. A	Seagle I R Rochester	§ VanPatter, Martin Rochester VanVleet, M. E. Rochester VanVleet, M. E. Rochester § Vaughn, L. D. Rochester § Wagener, H. P. Rochester Wakefield, E. G. Rochester §†Wakim, K. G. Rochester
8 Pool T L. Rochester	Seale R A Rochester	8†Wakim, K. G
Pool, T. L	Scholz, D. A. Rochester Scribner, B. H. Rochester Scudamore, H. H. Rochester Scale, J. B. Rochester Scale, R. A. Rochester Scale, R. M. Rochester Scalon, T. H. Rochester Schon, C. Rochester Schon, C. Rochester	& Walters, Waltman Rochester
Post. D. B	§ Seldon, T. HRochester	Wang, Jun-Chuan Minneapolis
Powers, W. W	§ Shands, W. CRochester § Shick, R. MRochester	§ Ward, L. ERochester
Prangen, A. DRochester Pratt, J. H., JrRochester	§ Shick, R. MRochester	Wakini, R. G. Rochester Wang, Jun-Chuan Minneapolis Ward, L. E. Rochester Watkins, C. H. Rochester Watson, J. B. Rochester Watson, J. R. Rochester Watson, J. R. Rochester
Pratt, J. H., JrRochester	Shocket, Everett Dayton, Ohio	Watson, J. B
Frickman, L. E. Rochester Fridgen, J. E. San Antonio, Tex. Priestley, J. T. Rochester Pruitt, R. D. Rochester Pugh, D. G. Rochester Pyle, M. M. Cannon Falls	Sholl, P. R	watson, J. R
Pringen, J. E San Antonio, Tex.	Siekert, R. G Philadelphia, Pa.	8 Webb T H Pochester
8 Project P D Pochecter	§ Siemon, GlennRochester Simmons, W. HRochester	Webb, J. H
8 Pugh D G Rochester	§ Simonton, K. MRochester	8 Weber: W. E
Pyle, M. M	Skaug, H. MChatfield	9 Weed, L. A
	Skaug, H. M Chatfield § Slocumb, C. H Rochester	Weir, J. F
Rall, J. ENew York, N. Y. Ralston, D. ERochester	Smith, Franklin R Seattle, Wash.	§ Wellman, W. ERochester
§ Ralston, D. ERochester	§†Smith, F. LRochester	Wente, H. A
8 Kandall, L. M Rochester	Smith, H. LRochester	Westrup, J. ELanesboro
Randall, R. VRochester	§ Smith, L. ARochester	
Randall, W. H. Grand Forks, N. D.	Smith, N. DRochester Soule, E. HRochester	Wilhelm, W. FRochester
Rasmussen, W. CRochester Reitemeier, R. JRochester	Spear, H. CRochester	 Williams, H. L., JrRochester Williams, L. BRochester
8 Paiter P A Pachester	S Spear I M Pochester	Williams, R. VRushford
§ Reiter, R. A	Spear, I. M. Rochester Spencer, B. J. Rochester Spock, B. M. Pittsburgh, Pa. Sprague, R. G. Rochester	8 Willius, F. A
8 Retter, Richard	§ Spock, B. M Pittsburgh, Pa.	§ Willius, F. ARochester § Wilson, R. BRochester
Rice, R. G Grand Island, Neb.	Sprague, R. GRochester	
Riddell, R. VLowell, Mass. Ridley, R. WRochester	§ Stapley, L. A., JrRochester § Stark, D. BRochester	Winburn, J. R. Rochester Winburn, J. R. Rochester Winchester, W. W. Rochester Wollaeger, E. E. Rochester Woltman, H. W. F. Rochester
§ Ridley, R. WRochester	§ Stark, D. BRochester	§ Winchester, W. W Rochester
Rigler, R. GPortsmouth, Va.	§ Stauffer, M. HRochester	Wollaeger, E. ERochester
§ Ripley, H. RRochester	§ Stickney, J. MRochester	Woltman, H. W. F Rochester
§ Risser, A. FStewartville	§ Stilwell, G. GRochester	§†Wood, Harry G Rochester Woolling, K. R Rochester
§ Robinson, A. WRochester	§ Stinson, J. C., JrRochester	
§ Rogne, W. GSpring Grove	Storsteen, K. ARochester	8 Wright S M Rochester
§ Rome, H. PRochester	Stowe, H. RRochester	8 Wright, S. M Rochester 8 Young, H. H Rochester
§ Romness, J. ORochester	§ Stroebel, C. F., Jr Rochester	9 Lick, L. H
§ Rooke, E. DRochester	Stuhler, L. GRochester	§ Zimmer, F. ERochester
PARK REGIO	N DISTRICT AND COUNTY MEDIC	AL SOCIETY

PARK REGION DISTRICT AND COUNTY MEDICAL SOCIETY Douglas, Grant, Otter Tail and Wilkin Counties Regular meeting date, every even month of the year Annual meeting, December Number of Members: 66

	President	*†Drought, W. WFergus Falls		Nelson, D. EAlexandria
	Schambers, W. F Parkers Prairie	§ Emerson, E. EOsakis § Estrem, C. OFergus Falls	8	Nelson, R. AFergus Falls Nelson, W. O. BFergus Falls
	Secretary	& Estrem, R. DFergus Falls	- 8	O'Brien, L. TBreckenridge
	Lewis, C. W	§ Geiser, P. MAlexandria Hanson, E. CNew York Mills		Ostergaard, Erling Evansville Parson, Lillian B Elbow Lake
8	Arndt, H. WDetroit Lakes	Harris, Evelyn S Fergus Falls		Parson, L. RElbow Lake
	Baker, A. CFergus Falls	§†Haskell, A. DAlexandria		Patterson, W. LFergus Falls
8	Baker, N. HFergus Falls Baker, N. HFergus Falls	Heiberg, E. AFergus Falls Helseth, H. KPelican Rapids	9	Paulson, T. SFergus Falls Randall, A. MAshby
8	Bergquist, K. E Battle Lake	Hom, Leong Y. W Battle Lake		Reeve, E. T Elbow Lake
	Bigler, E. EPerham	Jacobson, C. W Breckenridge		Rockwood, P. HFergus Falls Satersmoen, Theo,Pelican Rapids
+	Bigler, I. EPerham Blakey, A. ROsakis	8 Kevern, I. L	8	Sather, E. RAlexandria
8	Boline, C. ABattle Lake	§ Korda, H. A Pelican Rapids		Schamber, W. F Parkers Prairie
9	Boyd, L. MAlexandria Boysen, PeterBemidji	Lewis, A. J Parkers Prairie	8	Schoeneberger, P. BPerham Stemsrud, H. LAlexandria
	Burnap, W. LFergus Falls	§ Lewis, C. W		Sutton, H. R
8	Cain, J. H	Love, F. ACarlos Lund, C. J. TFergus Falls	8	Tanquist, E. JAlexandria Thompson, H. BSt. Cloud
8	Clifford, G. W Alexandria	Miller, W. A New York Mills		Warner, J. JPerham
8	Combacker, L. C Fergus Falls	§ Mortensen, N. G Minneapolis	5	Wasson, L. F Alexandria
3	Daehlin, RolfFergus Falls De Kruif, HFergus Falls	§ Mouritsen, G. JFergus Falls § Naegeli, FFergus Falls	- ‡	Weyhrauch, R. A Phoenix, Ariz. Wray, W. E Campbell

RAMSEY COUNTY MEDICAL SOCIETY Regular meetings, last Monday in every month excepting June, July, August Annual meeting, last Monday in January Number of Members: 453

President Hedenstrom, F. GSaint Secretary Hilger, L. DSaint	 Adair, A. F., Jr. Saint Paul Aherns, A. H. Saint Paul Aherns, A. E. Saint Paul Ahrens, R. M. Saint Paul	§†Alden, J. F., Jr. Saint § Arnquist, A. S. Saint § Arny, F. P. Saint § Arzt, P. K. Saint	Paul

TOTAL TOTAL

A Auralius T P Saint Paul	Fee I G Saint Paul	t King G L Saint Paul
At Ausman C. F So Saint Paul	Felian A I Saint Paul	8 Klein, H. N Saint Paul
& Ausman D. R Saint Paul	8t Ferguson I C Saint Paul	& Knutson, G. E Saint Paul
8 Rabb. Frank S Saint Paul	8 Fesler, H. H Saint Paul	& Kugler, A. A Saint Paul
8 Bacon, D. KSaint Paul	Field, A. H Farmington	& Kuske, A. W Saint Paul
Balcome, M. M Saint Paul	Fink, D. LSaint Paul	Kvitrud, GilbertSaint Paul
Barnett, J. M Saint Paul	§ Fisher, D. WSaint Paul	Lane, R. E Annapolis, Md.
Baronofsky, I. DMinneapolis	Flanagan, H. FSaint Paul	Lannin, B. GSaint Paul
Barry, L. W Saint Paul	§ Flannery, H. FSaint Paul	Lannin, D. RSaint Paul
Barsness, N. O. N Saint Paul	Flynn, L. L., Jr Saint Paul	Larsen, C. LSaint Paul
Bauer, E. L Saint Paul	Fogarty, C. W., Jr Saint Paul	Larson, Eva-Jane Saint Paul
Beals, Hugh Saint Paul	† Fogarty, C. WSaint Paul	Larson, J. TSo. Saint Paul
Beech, R. H Saint Paul	Fogelberg, E. JSaint Paul	Larson, K. RSaint Paul
Beek, H. OSaint Paul	Foley, F. E. BSaint Paul	Larson, M. L Saint Paul
Beer, J. J Saint Paul	A Francis C. D. Polose Loke Wise	8 Leaby Portholoment Saint Paul
Relleme Tames Saint Paul	Freeman, C. D. Balsam Lake, Wisc.	8 Leavenworth R O Saint Paul
8 Renene I L. Saint Paul	Freeman, G. I. Saint Paul	Lee, N. I Saint Paul
Rennion P H Isway, Mont.	Freidman, L. I Saint Paul	& Leick, R. M Saint Paul
8 Bentley, N. P Saint Paul	8 Fritz, W. L Saint Paul	& Leitch, Archibald Saint Paul
8 Bernstein, Wm. C Saint Paul	8 Froats, C. W Saint Paul	& Lepak, J. A Saint Paul
Bicek, J. FSaint Paul	Fuller, B. FSaint Paul	† Lerche, WmCable, Wisc.
Binger H. E Phoenix, Ariz.	Furnell, D. QSaint Paul	§ Leven, N. L Saint Paul
Black, E. JSaint Paul	§ Garbrecht, A. W Saint Paul	Leverenz, C. W Saint Paul
Bock, R. A Saint Paul	Gardiner, D. GSaint Paul	Levin, B. GSaint Paul
† Boeckman, Egil Saint Paul	§ Gardner, W. PSaint Paul	Levitt, George X Saint Paul
Bolender, H. L Saint Paul	Garrow, D. M Saint Paul	g Lick, C. LSaint Paul
Borg, J. F Saint Faul	g Genien, J. NSaint Paul	Lighthouse F f Saint Paul
8 Proped G D Saint Paul	8 Cibbs F C Saint Paul	Lilleberg N T Saint Paul
Brand, G. D. Saint Paul	Gilkey S F. Saint Paul	8 Linoman H. S Saint Paul
& Briggs John F Saint Paul	8 Gillespie D R Saint Paul	8 Loken, S. M Saint Paul
8 Broadie, T. E Saint Paul	& Gleason, W. A Saint Paul	Lowe, E. R So. Saint Paul
Brodie, W. D Saint Paul	Goldsmith, J. W Saint Paul	Lowe, T. ASo. Saint Paul
& Brotchner, R. J Saint Paul	§†Goltz, E. VSaint Paul	§ Lundholm, A. M Saint Paul
† Brown, J. C Saint Paul	Goltz, N. F Saint Paul	Lynch, F. W Saint Paul
Bulinski, T. JSaint Paul	Goltz, R. WSaint Paul	Mackoff, S. MSaint Paul
Burch, E. P., II Saint Paul	& Grant, H. WSaint Paul	Madden, J. FSaint Paul
† Burch, F. E Saint Paul	& Gratzek. Thos Saint Paul	Madland, R. S Saint Paul
Burklund, E. D Saint Paul	Grau, R. KSaint Paul	Maertz, Wm. F Saint Paul
Burlingame, D. A Saint Paul	Tuenhagen, A. PSaint Paul	9 Malerich, J. AW. Saint Paul
Burns, R. M Saint Faul	Hall, Bernard Saint Paul	Marks, R. W Saint Paul
Burton, C. GSaint Paul	8 Hammer F M Te Saint Paul	8 Martinean I I. Saint Paul
Rusher H H Saint Paul	Hammond I F Saint Paul	8 McCahe I S Saint Paul
& Cain C I. Saint Paul	8 Hanson H R Saint Paul	McCain D L. Saint Paul
Callahan, F. FSaint Paul	& Harmon, G. E Saint Paul	McCarthy, J. J Saint Paul
& Carley, W. A Saint Paul	8 Hartfiel, W. FSaint Paul	McCarthy, Wm. R Saint Paul
& Carroll, W. C Saint Paul	Hartig, MarjorieSaint Paul	McClanahan, J. H White Bear Lake
& Chadbourn, C. R Saint Paul	§ Hartley, E. CSaint Paul	McClanahan, T. S White Bear Lake
& Chatterton, C. C Saint Paul	§ Hassett, M. FSaint Paul	§ McCloud, C. N Saint Paul
Christiansen, A Saint Paul	Hauser, V. PSaint Paul	McEwan, Alexander Saint Paul
& Clark, H. B., Jr Minneapolis	§ Hayes, A. FSaint Paul	McGroarty, B. J Saint Paul
Cochrane, B. B Saint Paul	Hays, J. C Saint Paul	McKenzie, E. E Saint Paul
Coddon, W. D Saint Faul	9 Heck, W. WSaint Paul	Monda T P Coint Paul
Conen, Ellis N Newton, Mass.	Henderson A T C Saint Paul	8 Moore P T Coint Paul
Colo W H Saint Paul	8 Hengetler W H Saint Paul	8 Medelman T P Saint Paul
Collie H G St Petershurg, Fla.	8 Hensel C N Saint Paul	Melancon I F Saint Paul
& Connolly, C. I Saint Paul	Herman, S. M Saint Paul	Menold, Wm. F Saint Paul
Connor, C. E Saint Paul	§ Heron, R. C Saint Paul	Merner, T. BFaribault
Cook, C. KSaint Paul	§ Herrmann, E. TSaint Paul	§ Meyerding, E. A Saint Paul
Cooper, C. CSaint Paul	Hertz, M. JSaint Paul	Michienzi, L. J Saint Paul
Countryman, R. S Saint Paul	Hilger, A. WSaint Paul	Miller, Wm. T W. Saint Paul
* Cowern, E. W No. Saint Paul	Hilger, D. DSaint Paul	Miller, Z. R Saint Paul
Craig, D. MSaint Paul	Hilger, J. ASaint Paul	Milnar, P. J Saint Paul
Critchheld, L. R Saint Paul	9 Hilger, L. DSaint Paul	9 Moga, John ASaint Paul
Crombie, F. JNo. Saint Paul	Hiniker I D Saint Paul	Moguin M A Saint Paul
Crowley, J. H	8 Hachfilear I I Saint Paul	t Moren T A Saint Paul
Fr Sam Houston, Texas	Hodgson, T. F. Saint Paul	Moriarty, Bernice Saint Paul
8 Crump, I. W Saint Paul	Holcomb. O. W Saint Paul	Moriarty, Cecile R Saint Paul
Culligan, J. M Saint Paul	§ Hollinshead, W. H Saint Paul	& Muller, A. E No. Saint Paul
Culver, L. G Saint Paul	8 Holmen, R. W Saint Paul	Muller, R. T Saint Paul
*†Daugherty, E. B.	Holt, J. E Saint Paul	Mundahl, H. P Saint Paul
Marine-on-St. Croix	riopkins, G. W Saint Paul	Nameli A. E
Davis, E. VSaint Paul	Howard M A Saint Board	Nach I A E Basin, Mont.
Dawson, J. R Saint Paul	Howard W S Soint Paul	t Nelson T A Saint Paul
Decker C H Saint Paul	8 Howe N W Saint Paul	Nimlos K O Saint Paul
8*Dedolph, KarlSaint Paul	Fee, J. G. Saint Paul † Fergion, A. J. C. Saint Paul † Fergison, J. C. Saint Paul † Fersler, H. H. Saint Paul † Field, A. H. Farmington Fink, D. L. Saint Paul † Fisher, D. W. Saint Paul † Flanagan, H. F. Saint Paul † Flogarty, C. W. Jr. Saint Paul † Fogarty, C. W. Jr. Saint Paul † Fogarty, C. W. Jr. Saint Paul † Fogarty, C. W. Jr. Saint Paul † Forgerty, E. J. Saint Paul † Foreman, C. D. Jr. Saint Paul † Freeman, C. D. Jr. Saint Paul † Freits, W. L. Saint Paul † Freits, W. L. Saint Paul † Frotats, C. W. Saint Paul † Frommell, D. Q. Saint Paul † Garbrecht, A. W. Saint Paul † Garbrecht, A. W. Saint Paul † Gardner, W. P. Saint Paul † Gardner, W. P. Saint Paul † Gelles, J. N. Saint Paul † Gellen, J. N. Saint Paul † Gilkey, S. E. Saint Paul † Gilkey, S. E. Saint Paul † Goltz, N. F. Saint Paul † Goltz, N. F. Saint Paul † Goltz, N. F. Saint Paul † Goltz, R. W. Saint Paul † Goltz, R. W. Saint Paul † Grant, H. W. Saint Paul † Grant, H. W. Saint Paul † Goltz, R. Saint Paul † Hammes, E. M. Jr. Saint Paul † Hammes, E. M. Saint Paul † Hartfiel, W. F. Saint Paul † Hartfiel, W. S. Saint Paul † Hullsiek, M. D. Saint Paul † Holokonb, O. W. Saint Paul † Holder, L. D. Saint Paul † Hollinshead, W. H. Saint Paul † Hollins	† King, G. L. Saint Paul § Klein, H. N. Saint Paul § Kutson, G. E. Saint Paul § Kutson, G. E. Saint Paul § Kuske, A. W. Saint Paul Kvitrud, Gilbert Saint Paul Lane, R. E. Annaolis, Md. § Lannin, B. G. Saint Paul Lannin, D. R. Saint Paul Lansen, C. L. Saint Paul Larson, Eva-Jane Saint Paul Larson, Eva-Jane Saint Paul Larson, K. R. Saint Paul Larson, K. R. Saint Paul Larson, M. L. Saint Paul Larson, K. R. Saint Paul Larson, K. R. Saint Paul Larson, M. L. Saint Paul Larson, M. L. Saint Paul Larson, M. R. Saint Paul Larson, M. R. Saint Paul Larson, M. Saint Paul Larson, M. Saint Paul Larson, M. Saint Paul Larson, M. Saint Paul Lee, N. J. Saint Paul Mackoff, S. M. S
8 Derauf, B. I Saint Paul	8 Hullsiek, R. B Minneapolis	8 Noble, J. F Saint Paul
8 Deters, D. CSaint Paul	8 Hultgen, W. T Saint Paul	& Noble. J. L Saint Paul
Dickson, T. H Saint Paul	8 Hurwitz, M. M Saint Paul	Nuchel. C. J Hudson, Wisc.
Donohue, P. F Saint Paul	§†Ide, Arthur MSaint Paul	Nve, Katherine A Saint Paul
Brake, C. B Saint Paul	Ikeda, KanoSaint Paul	Nve, Lillian LSaint Paul
Dunn, J. N Saint Paul	Ingerson, C. A Saint Paul	O'Brien, J. C Saint Paul
Earl, G. ASaint Paul	Iesion, J. W Saint Paul	O'Young T W Saint Paul
Eding Custof Saint Paul	8 Tahngen A M	& O'Peiller R F
Edwards I W Saint Paul	8 Johnson C F Saint Paul	8 Ockuly Orville Saint Paul
Edwards I. C. Saint Poul	8 Iones F. Mendelssohn Saint Paul	8 Orden Warner Saint Paul
& Edwards T. I. Saint Paul	Tones, R. H. Minneapolie	8 Ohage, Justus Saint Paul
& Eginton, C. T Saint Paul	§ Kamman, G. R Saint Paul	Solsen, R. L Saint Paul
Ely, O. SSo. Saint Paul	Kaplan, D. H Saint Paul	Olson, C. ASaint Paul
Emerson, E. C Saint Paul	Karon, I. M Saint Paul	Sostergren, Edw. W Saint Paul
# Emmons, R. W Saint Paul	8 Kasper, E. M Saint Paul	9 Quellette. A. J Saint Paul
Endress, E. K Saint Paul	Katz, L. J Hot Springs, So. Dak.	Owens, F. M., Jr Minneanolis
Enroth, O. E Saint Paul	Keefe, R. ESaint Paul	Pearson, F. R Saint Paul
Ernest, G. C. H., St. Petersburg, Fla.	Kelly, J. V Saint Paul	Pederson, M. M Saint Paul
Ersteid, M. PSaint Paul	& Kenefick F W Caint Paul	Perrigo V E El Calon Calif
Front T A Te Saint Paul	8 Kennedy W A Saint Paul	Peterson D R Saint Paul
Ausman, C. F. So. Saint Paul Ausman, D. R. Saint Paul Babb, Frank S. Saint Paul Balome, M. Saint Paul Balome, M. Saint Paul Balome, M. Saint Paul Barnett, J. M. Saint Paul Barrett, L. W. Saint Paul Barrett, L. W. Saint Paul Barrett, L. M. Saint Paul Balett, L. Saint Paul Beek, H. O. Saint Paul Beellono, James Saint Paul Bellomo, James Saint Paul Bellomo, James Saint Paul Bellomo, James Saint Paul Bennion, P. H. Say, Mont. Bennion, P. H. Saint Paul Bennion, P. H. Say, Mont. Bock, R. A. Saint Paul Brodie, W. D. Saint Paul Busher, H. H. Saint Paul Callahan, F. F.	\$\frac{\text{Yttler}}{\text{Itler}}\$ Arthur M. Saint Paul Ikeda, Kano Saint Paul Ikeda, Kano Saint Paul Ingerson, C. A. Saint Paul Itlesion, J. W. Saint Paul Itlesion, Saint Paul Itlesion, Saint Paul Itlesion, Saint Paul Itlesion, S. Mendelssohn Saint Paul Itlesion, S. Mendelssohn Saint Paul Itlesion, S. Mendelssohn Saint Paul Kaplan, D. H. Saint Paul Kaplan, D. H. Saint Paul Kaplan, D. H. Saint Paul Itlesion, S. Mendelssohn Saint Paul Itlesion, S. Melley, J. V. Saint Paul Itlesion, S. Saint Paul	Nve, Katherine A. Saint Paul Nve, Lillian L. Saint Paul O'Brien, J. C. Saint Paul O'Connor. L. J. Saint Paul O'Kane, T. W. Saint Paul O'Realley, B. E. Saint Paul O'Realley, B. E. Saint Paul O'Realley, B. E. Saint Paul O'Realley, C. Saint Paul Pearson, P. R. Saint Paul Pedersen, A. H. Saint Paul Person, D. B. Saint Paul Peterson, D. B. Saint Paul Peterson, D. H. Saint Paul Peterson, H. O. Saint Paul
Faches T V Saint Paul	& Kesting, Herman Saint Paul	§ Peterson, H. OSaint Paul

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	ROSTER	
	\$ Schwyzer, H. C. Saint Paul Schon, M. S. Saint Paul Sekhon, M. S. Saint Paul Sekhon, M. S. Saint Paul Senkler, G. E. Saint Paul Setzer, H. J. Saint Paul Shannon, Wm. R. Saint Paul Shannon, S. W. Great Lakes, Ill. Short, Jacob Saint Paul Siegel, Clarence Saint Paul Siegel, Clarence Saint Paul Singer, B. J. Saint Paul Singer, B. J. Saint Paul Skinner, Abbott Saint Paul Somith, V. D. E. Saint Paul Somith, V. D. E. Saint Paul Sonit Paul Sorem, M. B. Saint Paul Sorem, M. B. Saint Paul Soucheray, P. H. Saint Paul Soucheray, P. H. Saint Paul Soucheray, P. H. Saint Paul Sterner, D. C. Saint Paul Sterner, E. R. Saint Paul Sterner, E. R. Saint Paul Sterner, E. R. Saint Paul Sterner, J. Saint Paul Sterner, E. R. Saint Paul Sterner, E. R. Saint Paul Sterner, G. W. Saint Paul Sterner, G. W. Saint Paul Sterner, G. W. Saint Paul Sterner, G. Saint Paul Sterner, E. L.	
President Dale, L. N	Annual meeting, December Number of Members: 73 Feigal, W. M Thief River Falls Flancher, L. H Crookston § Greene, D. E Thief River Falls § Hendrickson, R. R Crookston § Henney, W. H McIntosh † Hollands, W. H Fisher § Holmstrom, C. H Warren Janecky, A. G Baudette § Janssen, M. E Crookston Jenssen, A. R Crookston Johnson, H. C Thief River Falls Johnson, R. E Ah-Gwah-Ching § Kinkade, B. R Ada † Kirk, G. P East Grand Forks Klefstad, L. H Greenbush Knutson, G. A Hallock § Kostick, W. R Fertile § Loken, Theodore Ada Lynde, O. G Los Gato, Calif, McKaig, A. M Red Lake Falls McLane, W. O Brainerd §† Melby, O. F Thief River Falls § Mercil, W. F Crookston Nickerson, N. D. Thief River Falls § Nietfeld, A. B Warren	§ Norman, J. F
	NVILLE COUNTY MEDICAL SOCIE ular meetings, second Tuesday of each m Annual meeting, October Number of Members: 20	onth
President Anderson, C. A	§ Anderson, B. C. Olivia § Billings, R. E. Franklin §†Brand, W. A. Redwood Falls § Ceplecha, S. F. Redwood Falls § Cosgriff, J. A. Olivia Cosgriff, James A., Jr. Olivia Fordal, John Sacred Heart § Fawcett, A. M. Renville Flinn, T. E. Remer	§†Gaines, E. C. Buffalo Lake § Hinderaker, H. P. Bird Island § Johnson, O. H. Redwood Falls § Johnson, W. E. Morgan Knoche, H. A., Jr. Morgan Lenz, J. R. Morton McLeod, J. J. Japan Potthoff, C. J. Washington, D. C. Preisinger, J. W. Renville

MAY, 1951

CINE

RICE COUNTY MEDICAL SOCIETY Regular meeting, third Tuesday of every month Annual meeting, October Number of Members: 35

President	§ Hanson, J. WNorthfield	§ Nuetzman, A. WFaribault Petersen, D. HNorthfield
Traeger, C. AFaribault	8 Kennedy, G. LFaribault 8 Kolars, J. JFaribault	§ Robilliard, C. MFaribault Rohrer, C. AWaterville
Secretary Kolars, J. JFaribault	& Kucera, L. BLonsdale	Rumpf, C. W Faribault Stevenson, F. W Faribault
	Lende, Norman Faribault Lexa, F. J Lonsdale	§ Street, BernardNorthfield
8 Adkins, G. HFaribault Bruhl, H. HFaribault	Maertz, R. WFaribault Mears, R. FNorthfield	§ Studer, D. JFaribault § Traeger, C. AFaribault
Buesgens, R. HWaterville	Meyer, F. C	* Utne, J. R
§ Engberg, E. JFaribault Francis, D. WMorristown	Moses, R. R	Weaver, P. HFaribault Wilkinson, S. LFaribault
t Hanson A M Faribault	8 Nielson, A. MNorthfield	Wilson, W. E Northfield

ST. LOUIS COUNTY MEDICAL SOCIETY Carlton, Cook, Itasca, Lake and St. Louis Counties Regular meetings, second Thursday of each month Annual meeting, January Number of Members: 242

	Fortier, R. G	
President	Fortier R G Marble	t Meyer, I. O Grand Rapids
M. H. C. T. Duluth	Fredricks M C Duluth	8 Minty F W Duluth
McHaffie, O. LDuluth	Fredricks, M. G	8 Mary, D. T. Duluth
	& Gillespie, M. GDuluth	g Moe, R. J
Secretary	& Goldish, D. RDuluth	Moe, Thos
La Rree R H Duluth	8 Gowan, L. R	& Moehring, H. GDuluth
Labite, R. II	8 Graham A W Chisholm	Mollers T. P Soudan
n at a n a n and a	C-t-l- T D	Monroe P R Cloquet
Abraham, A. LDuluth	g Granek, J. P.	Monroe, I. BCloquet
Adams, B. S	g Graves, W. N	Monserud, N. UCloquet
Addy, E. RGilbert	§ Grinley, A. VGrand Rapids	Morsman, L. W
4 Arhelmer Stuart Minneapolis	& Haavik I. F	Mover, T. B
8 Asta T T Hibbing	8+Halbert T I Duluth	Mueller S C Duluth
g Arko, J. L	e TI-11:1 D 37 Deluth	Muncon M C Rarnum
Armstrong, E. L Duluth	g Halliday, P. V	Mulison, M. S
& Athens, Alvin GDuluth	Halme, W. BCloquet	8 Murray, R. A Hibbing
8 Bachnik, F. W	† Haney, Claude LDuluth	Neff, W. SVirginia
& Rackus P W Noneming	8 Hanson, F. OCarlton	8 Nelson, R. L
8 De-less C M Deleth	Harris C N Hibbing	8 Nicholson M A Duluth
9 Dagley, C. MDulutu	e Harris, C. M Deluth	Neghers C F Cloquet
Bagley, E. C	g Haten, W. E	Norberg, C. ECloquet
Bagley, Wm. RDuluth	Hayes, M. FNashwauk	9 Nutting, R. E
8 Baich, V. MBovey	§ Hedberg, G. ANopeming	S Olson, A. E
8 Rakkila H F Duluth	Heiam, Wm. CCook	Olson, A. O
9 Danier Distant	8 Hilding A C Duluth	8 O'Neill T C Duluth
g Dardon, RichardDujuth	True E E Delech	+ Decietti V T Hibbing
\$\frac{1}{8} \text{ Abraham, A. L. Duluth} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	mill, F. EDuluth	Palat Tage Trade
Barney, L. ADuluth	Hirschboeck, F. JDuluth	g Papermaster, Kaiph Iwo Harbors
8 Barrett, E. E	Hoff, H. ODuluth	† Parker, O. WDuluth
8 Recker F T. Duluth	8 Houkom, S. S Duluth	§ Parker, W. HChisholm
R Donell O F	Hutchinson H Moose Lake	Parson F I Duluth
Benen, U. Evirginia	g Taraham Classes Chishalm	8 Pagels A W Cloud
Bepko, Marie KCloquet	g Jacobson, Clarence	g Pasek, A. W
Berdez, G. L	§ Jacobson, F. CDuluth	T Pasek, E. ACloquet
8 Bergan R O Duluth	8 Jensen, T. I	§ Patch, O. B
# Riongo A I Te Duluth	8 Teronimus H T Duluth	† Pearsall, R. PVirginia
8 Dianco, A. J., Ji.	Province C M Deduth	\$ Podercen P C Duluth
Bianco, A. J	g Jessico, C. MDuluth	g redersell, R. C
† Binet, H. EGrand Rapids	loffe, H. HDuluth	Pennie, D. F. VDuludi
Blackmore, S. CBiwabik	§ Johnson, K. EDuluth	Peterson, E. NVirginia
Bolz, T. A	8 Johnsrud, L. WChisholm	§ Peterson, J. HDuluth
Roman P G Duluth	8 t Tohnston R. O	8 Power, J. E
8 Process T C Duluth	8 Tolin F M Rovey	Puumala R H
9 Dooren, J. CDulutu	Tourse D D Nachwork	Pandamiet C S Hibbing
Bowen, R. L	Juntunen, R. RNashwauk	g Raadquist, C. S
† Boyer, S. HDuluth	& Kelly, A. CDuluth	Raattama, J. W
Bover, S. H., IrDuluth	1 Keves, R. WEly	Raihala, JohnVirginia
8 Braun O C Grand Rapida	8 Klein, Harry	* Raiter, R. F
Recor D N Duluth	8 Klein Wm A Duluth	8 Reed Paul
Bridy, F. D. B. D. I. City C. D.	g Verse E M Duluth	Pohingon T M Goshen N V.
Bray, R. B Rapid City, S. D.	8 Knapp, F. IV.	e Datata II E Viccinia
Brooker, W. J	& Knoll, W. V	g Rokala, H. E Virginia
& Buckley, R. PDuluth	§ Kohlbry, C. ODuluth	TRood, D. CDuluta
Butler, I. K	8 Koskela, A. LDeer River	Rowe, O. WDuluth
Cantwell Wm E	Koskela I. F. Deer River	8 Rudie P. S
Totalla Falla	8 Votebauer E D Eveleth	8 Punquiet T M Duluth
International Falls	Wolchevar, F. REveletii	Duluth
Chapman, I. LDuluth	g Krueger, V. RNopening	e C 1 D in A Massa Take
Chermak, F. G	& La Bree, R. HDuluth	Sach-Rowitz, A Moose Lake
International Falls	& Laird, A. TDuluth	Salter, R. A
& Christensen, C. HDuluth	& Latterell, K. EDuluth	Sandell, S. TNopeming .
8 Clark C. I. Duluth	* Lenont C B Virginia	2 Sanford, J. B Battle Creek, Mich.
Clark E A Deleth	Lenak F I Duluth	8 Sarff. O. E
& Clock I T	and a fe de contract de contract de la contract de	
	8 Litman S N Duluth	Say M H Duluth
Coll T T	Litman, S. NDuluth	Sax, M. HDuluth
Coll, J. JDuluth	& Litman, S. NDuluth & Lovshin, W. CEveleth	Sax, M. H. Duluth
8 Coll, J. J Duluth t Collins, A. N Moose Lake	§ Litman, S. NDuluth § Lovshin, W. CEveleth § Luth, D. VDuluth	Sax, M. H
Coll, J. J	§ Litman, S. N	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Rapids Schmid, J. F. Duluth
Coll, J. J. Duluth Collins, A. N. Moose Lake Conley, F. W. Duluth County Wm A Duluth	8 Litman, S. N. Duluth 8 Lovshin, W. C. Eveleth 9 Luth, D. V. Duluth MacDonald, R. A. Littlefork 8 MacFarlane P. H. Chisholm	**Meyer, J. O. Grand Rapids Mors, E. W. Duluth Moe, R. J. Duluth Moe, Thos. Moose Lake Mochring, H. G. Duluth Mollers, T. P. Soudan Monroe, P. B. Cloquet Monserud, N. O. Cloquet Morsman, L. Hibbing Moyer, J. B. Duluth Mueller, S. C. Duluth Mueller, S. C. Duluth Murray, R. A. Hibbing Neff, W. S. Virginia Nicholson, M. S. Barnum Nicholson, M. A. Duluth Norberg, C. E. Cloquet Norberg, C. E. Cloquet Norberg, C. E. Duluth Norberg, C. E. Cooquet Norberg, C. E. Duluth Norberg, C. E. Cooquet Norberg, C. Cooquet
Collins, A. N. Moose Lake Collins, F. W. Duluth Coventry, Wm. A. Duluth Coventry, Wm. A. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chishol	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ravide Schmid, J. F. Duluth Schneider, L. E. Duluth Schneider, L. E. Duluth
\$ Coll, J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth \$ Coventry, Wm. A. Duluth \$ Coventry, Wm. D. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schneider, L. E. Duluth Schroder, C. H. Duluth By Schroder, C. H. Hibbing
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth \$ Coventry, Wm. A. Duluth \$ Coventry, Wm. D. Duluth Detjen, E. D. Bigfork	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth § Magney, F. H. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ravide Schmeid, J. F. Duluth Schneider, L. E. Duluth Schroder, C. H. Duluth Schweiger, T. R. Hibbing
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth \$ Coventry, Wm. A. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth	\$ Litman, S. N. Duluth \$ Lovshin, W. C. Eveleth \$ Luth, D. W. C. Duluth MacDonald, R. A. Littlefork \$ MacFarlane, P. H. Chisholm \$ MacRae, G. C. Duluth \$ Magney, F. H. Duluth Magraw, R. M. Saint Paul	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, C. H. Duluth Schweiger, T. R. Hibbing Sher, D. A. Virginia
\$ Coll, J. J. Duluth † Collins, A. N. Mose Lake \$ Conley, F. W. Duluth § Coventry, Wm. A. Duluth § Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth \$ Eckman, P. F. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Louth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmeid, J. F. Duluth Schreider, L. E. Duluth Schreiger, T. R. Hibbing Schreiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth § Coventry, Wm. A. Duluth Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth § Eckman, P. F. Duluth § Eckman, R. I. Duluth	8 Litman, S. N. Duluth 8 Lovshin, W. C. Eveleth 9 Luth, D. V. Duluth MacDonald, R. A. Littlefork 9 MacFarlane, P. H. Chisholm 9 MacRae, G. C. Duluth 9 Magney, F. H. Duluth Magraw, R. M. Saint Paul 9 Malmstrom, J. A. Virginia 9 Marcley, W. I. Minneanolis 9 Marcley, W. I. Minneanolis	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schenider, L. E. Duluth Schroder, C. H. Duluth Schweiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Singmark, Andrew Hibbing
\$ Coll, J. J. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmeid, J. F. Duluth Schreider, L. E. Duluth Schreiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Sinamark, Andrew Hibbing Sieler, C. E. Grand Ranids
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth § Coventry, Wm. A. Duluth † Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth † Eckman, P. F. Duluth † Eckman, R. J. Duluth † Ekblad, J. Wm. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth § Magney, F. H. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schneider, L. E. Duluth Schroder, C. H. Duluth Schweiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Siegel, J. S. Virginia Schweiger, Andrew Hibbing Schert C. E. Grand Rapids
\$ Coll, J	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth Mayne, R. M. Nopeming	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ravids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Sinamark, Andrew Hibbing Sisler, C. E. Grand Ravids Smith, C. M. Duluth
Coll.	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming § McCarty, P. D. Ely	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schreider, L. E. Duluth Schroder, C. H. Duluth Schweiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ranids Smith, C. M. Duluth Smith, W. R. Grand Mazais
\$ Coll, J. Duluth † Collins, A. N. Moose Lake † Conley, F. W. Duluth † Coventry, Wm. A. Duluth † Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth † Eckman, P. F. Duluth † Eckman, R. J. Duluth † Ekblad, J. Wm. Duluth † Ekblad, C. D. Brookston † Elas, Frank J. Duluth † Emanuel, Karl Wm. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming † McCarty, P. D. Ely † McCoy, M. K. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schriber, M. J. Grand Ravids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ravids Simmark, Andrew Hibbing Sisler, C. E. Grand Ravids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E Elv
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake \$ Conley, F. W. Duluth § Coventry, Wm. A. Duluth † Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth † Eckman, P. F. Duluth † Eckman, R. J. Duluth † Ekblad, J. Wm. Duluth Eklund, C. D. Brockston † Elias, Frank J. Duluth † Elias, Frank J. Duluth † Emanuel, Karl Wm. Duluth † Emanuel, Karl Wm. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth. D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming † McCarty, P. D. Ely † McCoy, M. K. Duluth McCoynald, A. L. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ravide, Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, T. R. Hibbing Schreider, T. R. Hibbing Schreiger, T. Hibbing Siegel, J. S. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ravide Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Elv Spang, A. J. Duluth
\$ Coll, J. J. Duluth † Collins, A. N. Moose Lake † Collins, A. N. Moose Lake † Coventry, F. W. Duluth † Coventry, Wm. A. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth † Eckman, P. F. Duluth † Eckman, R. J. Duluth † Ekblad, J. Wm. Duluth † Ekblad, J. Wm. Duluth † Eklund, C. D. Brookston † Elias, Frank J. Duluth Epard, R. M. Cloquet E Estern, T. A. Hibbing	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming † McCarty, P. D. Ely † McCoy, M. K. Duluth McDonald, A. L. Duluth McDonald, A. L. Duluth McDonald, O. G. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schriber, M. J. Grand Ravids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, L. E. Duluth Schveiger, T. R. Hibbing Sher, D. A. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ravids Simmark, Andrew Hibbing Sisler, C. E. Grand Ravids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Elv Spang, A. J. Duluth Spang, A. J. Duluth
Coll, J. J. Duluth	\$ Litman, S. N. Duluth \$ Lovshin, W. C. Eveleth \$ Luth. D. V. Duluth MacDonald, R. A. Littlefork \$ MacFarlane, P. H. Chisholm \$ MacRae, G. C. Duluth Magraw, R. M. Saint Paul Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming McCorty, P. D. Ely † McCoy, M. K. Duluth McDonald, A. L. Duluth § McDonald, O. G. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranide Schmid, J. F. Duluth Schmeider, L. E. Duluth Schweiger, T. R. Hibbing Schweiger, T. R. Virginia Siegel, J. S. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ranide Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Ely Spang, A. J. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Spang, J. J. Duluth Spang, J. S. Duluth Spang, J. M. Virginia
\$ Coll, J. J. Duluth Collins, A. N. Moose Lake Conley, F. W. Duluth Coventry, Wm. A. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth Eckman, P. F. Duluth Eklund, C. D. Brookston Eklund, C. D. Brookston Elias, Frank J. Duluth Epard, R. M. Cloquet Emanuel, Karl Wm. Duluth Eppard, R. M. Cloquet Estrem, T. A. Hibbing Extrem, T. A. Hibbing Extrems, H. J. B. Virginia	\$ Litman, S. N. Duluth \$ Lovshin, W. C. Eveleth \$ Luth, D. V. Duluth MacDonald, R. A. Littlefork \$ MacFarlane, P. H. Chisholm \$ MacRae, G. C. Duluth Magraw, R. M. Saint Paul \$ Malmstrom, J. A. Virginia \$ Martley, W. J. Minneapolis \$ Martin, W. C. Duluth \$ Mayne, R. M. Nopeming \$ McCarty, P. D. Elv McCoy, M. K. Duluth McDonald, A. L. Duluth \$ McDonald, A. L. Duluth \$ McDonald, O. G. Duluth \$ McDonald, O. G. Duluth \$ McLaffle, Q. L. Duluth \$ Mc	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, L. E. Duluth Schweiger, T. R. Hibbing Singer, D. A. Virginia Siegel, J. S. Virginia Siegel, J. S. Virginia Siegel, J. S. Grand Rapids Singer, C. E. Grand Rapids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Else Spang, A. J. Duluth Spang, J. S. Duluth Statestory M. Gibbert Schreider, M. M. Cilibert
\$ Coll, J. Duluth † Collins, A. N. Moose Lake † Collins, A. N. Moose Lake † Corney, F. W. Duluth † Coventry, Wm. A. Duluth † Coventry, Wm. D. Duluth Detjen, E. D. Bigfork † Detjen, E. D. Duluth † Eckman, R. J. Duluth † Eckman, R. J. Duluth † Ekblad, J. Wm. Duluth † Ekblad, C. D. Brookston † Elias, Frank J. Duluth Emmuel, Karl Wm. Duluth Eppard, R. Cloquet Estrem, T. A. Hibbing † Estern, T. A. Duluth † Estern, T. A. Hibbing † Estern, T. A. Duluth	§ Litman, S. N. Duluth § Lovishin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming McCarty, P. D. Ely McCoy, M. K. Duluth McDonald, A. L. Duluth § McDonald, O. G. Duluth § McHaffle, O. L. Duluth § McCarty, M. McDonald, O. G. Duluth § McCarty, P. D. Ely McCoy, M. K. Duluth § McCarty, P. D. Duluth § McCarty, P. D. Grand Rapids	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranide Schmid, J. F. Duluth Schmeider, L. E. Duluth Schweiger, T. R. Hibbing Schweiger, T. R. Hibbing Siegel, J. S. Virginia Siegel, J. S. Virginia Sisler, C. E. Grand Ranide Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Elw Spang, A. J. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Strandjord, N. M. Virginia Strathern, M. L. Gilbert
Coll. J. J. Duluth	\$ Litman, S. N. Duluth \$ Lovshin, W. C. Eveleth \$ Luth, D. V. Duluth MacDonald, R. A. Littlefork \$ MacFarlane, P. H. Chisholm \$ MacRae, G. C. Duluth \$ Magney, F. H. Duluth Magraw, R. M. Saint Paul \$ Malmstrom, J. A. Virginia \$ Martie, W. C. Duluth \$ Mayne, R. M. Nopeming \$ McCarty, P. D. Dily \$ McCoy, M. K. Duluth \$ McDonald, A. L. Duluth \$ McDonald, O. G. Duluth \$ McDonald, O. G. Duluth \$ McBarthe, D. L. Duluth \$ McHaffle, O. L. Duluth \$ McHaffle, O. L. Duluth \$ McKenna, M. J. Grand Rapids \$ McCeod, J. L. Grand Rapids \$ McLeod, J. L. Grand Rapids	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ravide Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, L. E. Duluth Schweiger, T. R. Hibbing Scher, D. A. Virginia Siegel, J. S. Virginia Siegel, J. S. Virginia Sinamark, Andrew Hibbing Sisler, C. E. Grand Ravide Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. E. Spang, A. J. Duluth Spang, A. J. Duluth Spang, A. J. Duluth Spang, A. J. Duluth Strandjord, N. M. Virginia Strandjord, N. M. Virginia Strathern, M. L. Gilbert Strathern, M. L. Gilbert
\$ Coll, J. Duluth Collins, A. N. Moose Lake Conley, F. W. Duluth Coventry, Wm. A. Duluth Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth Eckman, R. J. Duluth Eckman, R. J. Duluth Ekhlad, J. Wm. Duluth Eklund, C. D. Brookston Elias, Frank J. Duluth Eppard, R. M. Cloquet Estrem, T. A. Hibbing Estrem, T. A. Hibbing Estrem, T. A. Hibbing Estrem, T. A. Hibbing Estrem, T. A. Duluth Fellows, M. F. Duluth Fellows, M. F. Duluth Fischer, M. McC. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth Magraw, R. M. Saint Paul Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming McCarty, P. D. Ely † McCoy, M. K. Duluth McDonald, A. L. Duluth § McDonald, O. G. Duluth § McDonald, O. G. Duluth § McDonald, O. G. Duluth § McCoon, M. C. Duluth § McCoon, M. C. Duluth § McConald, O. G. Duluth § McCoon, M. C. Grand Rapids § McCutt, J. R. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schreider, L. E. Duluth Schweiger, T. R. Hibbing Schweiger, T. R. Hibbing Siegel, J. S. Virginia Siegel, J. S. Virginia Siegel, J. S. Grand Ranids Siegel, J. S. Grand Ranids Singhamark, Andrew Hibbing Sisler, C. E. Grand Ranids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Grand Marais Snyker, O. E. Duluth Spang, A. J. Duluth Spang, J. J. Duluth Strandjord, N. M. Virginia Strathern, M. L. Gilbert Strauss, E. C. Duluth Strauss, E. C. Duluth
\$ Coll, J. J. Duluth Collins, A. N. Mose Lake Conley, F. W. Duluth Coventry, Wm. A. Duluth Coventry, Wm. D. Duluth Detien, E. D. Bigfork Doyle, G. C. Duluth Eckman, P. F. Duluth Eckman, R. J. Duluth Eklund, C. D. Brookston Elias, Frank J. Duluth Eklund, C. D. Brookston Elias, Frank J. Duluth Estern, T. A. Hibbing Extrem, T. A. Hibbing Extrem, T. A. Hibbing Extrem, H. B. Virginia Fawcett, K. R. Duluth Fiskert, M. McC. Duluth Fiskert, M. McC. Duluth Fiskert, M. McC. Duluth	§ Litman, S. N. Duluth § Lovshin, W. C. Eveleth § Luth, D. V. Duluth MacDonald, R. A. Littlefork § MacFarlane, P. H. Chisholm § MacRae, G. C. Duluth § Magney, F. H. Duluth Magraw, R. M. Saint Paul § Malmstrom, J. A. Virginia † Marcley, W. J. Minneapolis § Martin, W. C. Duluth § Mayne, R. M. Nopeming † McCorty, P. D. Ely † McCoy, M. K. Duluth McDonald, A. L. Duluth § McDonald, O. G. Duluth § McHaffie, O. L. Duluth § McKenna, M. J. Grand Rapids § McKenna, M. J. Grand Rapids § McCodd, J. L. Grand Rapids § McNutt, J. R. Duluth Mead, C. H. Duluth	Sax, M. H. Duluth Sax, S. G. Duluth Schirber, M. J. Grand Ranids Schmid, J. F. Duluth Schroder, C. H. Duluth Schooder, C. H. Duluth Schweiger, T. R. Hibbing Scher, D. A. Virginia Siegel, J. S. Virginia Sister, C. E. Grand Ranids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Ely Spang, A. J. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Strandjord, N. M. Virginia Strandjord, N. M. Virginia Strathern, M. L. Gilbert Strauss, E. C. Duluth Strewler, G. J. Duluth Strewler, G. J. Duluth Strewler, G. J. Duluth
\$ Bardon, Richard Duluth Barker, J. D. Duluth Barney, J. D. Duluth Becker, F. T. Duluth Becker, F. T. Duluth Becker, F. T. Duluth Becker, F. T. Duluth Becker, E. L. Duluth Becker, E. L. Duluth Bergan, R. O. Duluth Bergan, R. O. Duluth Bianco, A. J., Jr. Duluth Bianco, A. J., Jr. Duluth Bianco, A. J., Jr. Duluth Bianco, A. J. Duluth Bianco, J. C. Duluth Blackmere, S. C. Biwabik Bolz, J. A. Grand Rapids Bowan, P. C. Duluth Bowen, R. L. Hibbing Boyer, S. H. Duluth Bray, R. B. Rapid City, S. D. Boyer, S. H. Duluth Bray, R. B. Rapid City, S. D. Brooker, W. J. Duluth Bray, R. B. Rapid City, S. D. Brooker, W. J. Duluth Bray, R. B. Rapid City, S. D. Buckley, R. P. Duluth Chark, F. G. Duluth Chermak, F. G. Duluth Clark, C. L. Duluth Clark, E. A. Duluth Clark, E. A. Duluth Clark, E. A. Duluth Clark, E. A. Duluth Collins, A. N. Moose Lake Conley, F. W. Duluth Becken, P. D. Duluth Becken, P. Duluth Ekland, C. D. Brookston Bigfork Doyle, G. C. Duluth Ekland, J. Wm.	Hedberg, G. A. Nopeming Heiam, Wm. C. Cook Hidding, A. C. Duluth Hill, F. E. Duluth Hill, F. E. Duluth Hirschboeck, F. J. Duluth Hirschboeck, F. J. Duluth Holkom, S. S. Duluth Hutchinson, H. Moose Lake Jacobson, Clarence Chisholm Jacobson, F. C. Duluth Hutchinson, H. Moose Lake Jacobson, F. C. Duluth Joseph Jacobson, F. C. Duluth Joseph Jacobson, F. C. Duluth Joseph Jacobson, E. Duluth Joffe, H. H. Duluth Joffe, H. H. Duluth Joffe, H. H. Duluth Joffe, H. H. Duluth Johnsrud, L. W. Chisholm Johnson, K. E. Duluth Johnsrud, L. W. Chisholm Johnsrud, L. W. Chisholm Johnsrud, L. W. Chisholm Johnsrud, L. W. Chisholm Johnsrud, R. Nashwauk Kelly, A. C. Duluth Jolin, F. M. Bovey Juntunen, R. R. Nashwauk Kelly, A. C. Duluth Jolin, F. M. Bovey Juntunen, R. R. Nashwauk Kelly, A. C. Duluth Keyes, R. W. Elly Klein, Harry Duluth Johnsrud, L. Deer River Koskela, L. L. Deer River Koskela, A. T. Duluth Koskela, A. T. Duluth Lepak, F. R. Eveleth Krueger, V. R. Nopeming Lepak, F. D. Duluth Lepak, F. D. Duluth Lepak, F. D. Duluth Lepak, F. D. Duluth MacDonald, R. A. Littlefork MacParlane, P. H. Chisholm Magraw, R. M. Saint Paul Malmstrom, J. A. Virginia Martin, W. C. Duluth Magraw, R. M. Saint Paul Malmstrom, J. A. Virginia Martin, W. C. Duluth Magraw, R. M. Nopeming McCarty, P. D. Ely McCoy, M. K. Duluth McMartin, W. C. Duluth McMartin, M. L. Duluth McMartin, M.	Sarx, M. H. Duluth Sax, S. G. Duluth Sax, S. G. Duluth Schriber, M. J. Grand Ranids Schmid, J. F. Duluth Schreider, L. E. Duluth Schreider, L. E. Duluth Schreider, C. H. Duluth Schreider, C. H. Wirginia Siegel, J. S. Wirginia Singer, C. E. Grand Ranids Smith, C. M. Duluth Smith, W. R. Grand Marais Snyker, O. E. Elv Spang, A. J. Duluth Spang, J. S. Duluth Spang, J. S. Duluth Strathern, M. L. Gilber Strathern, M. L. Gilber Strathern, M. L. Gilber Strewler, G. J. Duluth Strewler, G. J. Duluth Strewler, G. J. Duluth Strewler, G. D. Duluth Strewler, G. D. Duluth Strewler, G. D. Duluth Strewler, G. D. Duluth Strobel, Wm. G. Duluth Stuart, A. B. Cloquet

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§ Sutherland, H. N Ely § Swedberg, Wm. A	Tosseland, N. E. Duluth Tuohy, E. L. Duluth Urberg, S. E. Duluth Van Ryzin, D. J. Duluth Van Valkenberg, J. D. Floodwood Walder, H. J. Duluth Walker, A. E. Duluth Wallace, M. O. Duluth	Walter, F. H International Falls Wells, A. H Duluth Wheeler, D. W Duluth Williams, B. F. P Duluth Winter, J. A Duluth Young, T. O Duluth †Zlatovski, M. L Duluth Zupanc, E. A Duluth
	C-CARVER COUNTY MEDICAL SOO r meetings, second Wednesday of each Annual meeting, June Number of Members: 28	month
President Simons, B, H	Heinz, Ivy B. Shakopee Heinz, L. H. Shakopee § Juergens, H. M. Belle Plaine ‡ Kline, R. F. Montgomery § Kortsch, F. P. Prior Lake § Kueca, S. T. Northfield Martin, T. P. Arlington Nagel, H. D. Waconia Ninneman, N. N. Waconia † Novak, E. E. New Prague Olson, C. J. Belle Plaine	§ Pearson, B. F. Shakopee Pogue, R. E. Watertown § Ponterio, J. E. Shakopee Rieschl, Elizabeth K. Jordan § Rynda, E. R. New Prague † Sanford, J. A. Savage Schimelpfenig, G. T. Chaska Simons, B. H. Chaska Stahler, P. A. Jordan †Westerman, Alvin Montgomery § Westerman, F. C. Montgomery
	VESTERN MINNESOTA MEDICAL S ackson, Murray, Nobles, Pipestone and Regular meetings, on call Annual meeting, on call	OCIETY Rock Counties
President Pankratz, P. J Mountain Lake Secretary Heiberg, O. M Worthington Arnold, E. W Adrian Balmer, A. I. Pipestone Basinger, H. P Windom Basinger, H. R Mountain Lake Beckering, Gerrit Edgerton Benjamin, W. G Pipestone Bofenkamp, F. W Luverne Brown, A. H Pipestone Carlson, J. V. Westbrook Christiansen, H. A Jacksen Chunn, S. S Pipestone Chunn, S. Pipestone Doman, V. W. Lakefield Doms, H. C Slayton Doms, H. C Slayton Gruys, R. I Windom Hallin, R. P Worthington	Halbern, W. H. Jackson Halpern, D. J. Brewster Harrison, P. W. Worthington Hitchings, W. S. Lakefield Hoyer, L. J. Windom Hursh, P. W. Slayton Johnson, M. A. Storden Karleen, B. N. Jackson Kilbride, E. A. Worthington Kibride, J. S. Worthington Koval, R. J. Pipestone Laikola, L. A. Adrian Lohmann, J. G. Pipestone Mailland, E. T. Jackson Manson, F. M. Worthington Martin, A. C. Luverne Minge, R. K. Worthington Nelson, C. A. Worthington Martin, A. C. Luverne Minge, R. K. Worthington Nelson, C. A. Worthington Nickerson, J. R. Heron Lake Pankratz, P. J. Mountain Lake Patterson, H. D. Slayton	Philp, R. D. Windom Pierson, R. F. Slayton Piper, W. A. Mountain Lake Robinett, R. W. Worthington Rose, J. T. Lakefield Schade, F. L. Worthington Schmidt, J. R. Mountain Lake Schutz, E. S. Mountain Lake Schutz, E. S. Mountain Lake Schutz, E. S. Worthington Slater, S. A. Worthington Sourm, F. T. Jasper Stam, John Worthington Stanley, C. R. Worthington Stanley, C. R. Worthington Starte, H. C. Windom Stratte, H. C. Windom Watkins, J. A. Windom Wallisms, C. A. Pipestone Williams, C. A. Pipestone Williamson, H. A. Heron Lake Wisness, O. A. Slayton Wolff, H. B. Worthington
STEAR!	gular meetings, third Thursday of mor mual meeting, third Thursday in December	OCIETY tth ber
President Nessa, C. B	Freiseben, Wm. Sauk Rapids Gaida, J. B. Saint Cloud Goehrs, H. W. Saint Cloud Goehrs, H. W. Saint Cloud Grant, J. C. Sauk Centre Haberman, Emil Osakis Halenbeck, P. L. Saint Cloud Henry, C. J. Milaca Henry, J. E. Milaca Henry, J. E. Milaca Henry, J. F. Cold Spring Kelly, J. F. Cold Spring Kuhlmann, L. B. Melrose Lewis, C. B. Saint Cloud Libert, J. N. Saint Cloud Mahowald, A. Albany McDowell, J. P. Saint Cloud Meyer, A. A. A. Albany McDowell, J. P. Saint Cloud Meyer, A. A. Saint Cloud Meyer, A. A. Saint Cloud Meyer, A. A. Saint Cloud Musachio, N. F. Saint Cloud	Myre, C. R
	TEELE COUNTY MEDICAL SOCIET Regular meetings, every two months Annual meeting, January Number of Members: 22	TY
President Lundquist, C. W Owatonna Secretary Osborn, D. O Owatonna Anderson, F. C Owatonna MAY, 1951	Arnesen, J. F. Owatonna Berghs, L. V. Owatonna Dewey, D. H. Owatonna Ertel, E. Q. Ellendale Fischer, J. R. Owatonna Hartung, E. H. Claremont	Kurtin, H. J Blooming Prairie Kurtin, J Blooming Prairie Lundquist, C. W Owatonna McEnaney, C. T Owatonna McIntyre, J. A Owatonna Melby, Benedik Blooming Prairie

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† Morehead, D. EOwatonna Nelson, E. JOwatonna Olson, A. JOwatonna	Osborn, D. O Owatonna Roberts, O. W Owatonna Schaefer, J. F Owatonna	Senn, E. W Owatonna Stransky, T. W Owatonna Wilkowske, R. J Owatonna		
UPI Aitkin, Beltrami, Cass, Clea	PER MISSISSIPPI MEDICAL SOCIET arwater, Crow Wing, Hubbard, Koochick Morrison, Todd and Wadena Counties Regular meetings, quarterly Annual meeting, January Number of Members: 95	ing, Lake of the Woods,		
President Hanover, R. D Little Fork Secretary Badeaux, G. I	† Gilmore, Rowland Crookston † Grogan, John S. Wadena Groschupf, T. P. Bemidji Grose, F. N. Clarissa § Hanover, R. D. Little Fork Hartjen, J. K. Bemidji Healy, R. T. Pierz Hendricks, E. J. Saint Paul Higgs, W. W. Park Rapids Hill, W. C. Ann Arbor, Mich. ‡ Hoganson, D. E. Camp Rucker, Ala. † Houston, D. M. Park Rapids Hubbard, O. E. Brainerd † Johnson, C. E. Saint Paul Johnson, C. E. Saint Paul Johnson, E. W. Bemidji Johnson, E. W. Bemidji Johnson, E. W. Bemidji Johnson, E. W. Bemidji Johnson, E. B. International Falls Kinports, E. B. International Falls Kinjit, E. G. Swanville Larson, L. Bagley Laughlin, J. T. Grey Eagle Lee, Hubert W. Brainerd Leggett, Elizabeth Ah-Gwah-Ching § Lenarz, A. J. Browerville Longfellow, Helen W. Brainerd Lund, W. J. Staples Marshall, C. M. Crosby McCann, D. F. Bemidji § McGeary, M. D. Oceanside, Calif. § Mitby, Irving L. Minneapolis § Mosby, M. E. Long Prairie § Mulligan, A. M. Brainerd	Nelson, Bernette G. Menahga Nelson, Bernice A. Menahga Nelson, N. P. Minneapolis § Nixon, I. B. Crosby Olson, Lillian A. Ah-Gwah-Ching Palmer, H. A. Blackduck Parker, C. W. Wadena § Parker, W. E. Sebeka Petraborg, H. T. Aitkin Pierce, C. H. Wadena Pierce, R. B. Wadena Potek, David International Falls Quanstrom, V. E. Brainerd § Ratcliffe, J. Aitkin Ringle, O. F. Walker § Rozycki, A. T. Pine River Rutherford, W. C. Brainerd § Schmitz, Gr. P. Little Falls Simons, E. J. Minneapolis § Stein, R. J. Pierz Stoy, R. A. Little Falls Thabes, J. A., Jr. Brainerd Watson, A. M. Royalton Watson, A. M. Royalton Watson, Percy T. Minneapolis Watson, A. M. Royalton Whittemore, D. Bemidji Will, C. B. Bertha Williams, M. M. Ab-Gwah-Ching § Wingquist, C. G. Crosby Zeigler, C. M. Pine River		
Annual meet	ABASHA COUNTY MEDICAL SOCIETING, first Thursday after the first Monday ther meetings as called by the Presiden Number of Members: 16	in October		
President Gjerde, Wm. PLake City Secretary Wilson, W. FLake City Bayley, E. CLake City Bouquet, B. JWabasha	Bowers, R. N. Lake City Collins, J. S. Wabasha & Ekstrand, L. M. Wabasha & Ellis, E. W. Eloin & Eloin	Martin, D. A		
w.	ASECA COUNTY MEDICAL SOCIET Regular meetings, as decided Annual meeting, January Number of Members: 10	Y		
President Oeljen, S. C. GWaseca Secretary Ourada, A. LWaseca	§ Davis, R. D	§ Oeljen, S. C. G		
WASHINGTON COUNTY MEDICAL SOCIETY Regular meetings, second Tuesday in each month Annual meeting, second Tuesday in December Number of Members: 10				
President Ruggles, G. MForest Lake Secretary Boleyn, E. SStillwater Burseth, E. CForest Lake	§ Carlson, R. E. Stillwater §†Haines, J. H. Stillwater § Holcomb, J. T. Marine-on-St.Croix Humphrey, W. R. Stillwater § Jenson, J. E. Stillwater § Johnson, R. G. Stillwater Josewski, R. J. Stillwater	§ Juergens, M. F. Stillwater § McCarten, F. M. Stillwater Poirier, J. A. Forest Lake Ruggles, G. M. Forest Lake § Sherman, C. H. Bayport § Stuhr, J. W. Stillwater Van Meier, Henry Stillwater		
Big Regular meetings,	SENTRAL MINNESOTA MEDICAL S Stone, Pope, Stevens, and Traverse Cou first Wednesday in March, May, Septem nnual meeting, first Wednesday in Noveml Number of Members: 33	nties ber and November		
President Barrett, G. L	§ Arneson, A. I	§ Bucher, F. D. Starbuck Dahle, M. B. Olivia §†Eberlin, E. A. Glenwood § Eide, O. A. Hancock § Elsey, E. M. Glenwood		
480		MINNESOTA MEDICINE		

	ROSTER	
† Elsey, J. R	§ Lindberg, A. L. Wheaton §†Linde, Herman Cyrus § Magnuson, A. E. Wheaton McIver, B. A. Lowry § Merrill, R. W. Morris Muir, W. F. Browns Valley Noble, J. H. Graceville § O'Donnell, D. M. Ortonville	§ Oliver, I. L
. WI	NONA COUNTY MEDICAL SOCIET	TY .
Regular meetin	g, first Monday in January, April, July Annual meeting in January Number of Members: 33	y and October
President Heise, PaulWinona	§ Heise, Paul	Roemer, H. JWinona Rogers, C. WWinona Satterlee, H. WLewiston

President \$ Heise, Paul	
§†Heise, W. F. C	ona
Secretary \$ Heise, W. v R. Winona \$ Schaefer, Samuel Winona \$ Schmidt, H. R. Winona \$ Johnston, L. F. Winona \$ Schmidt, H. R. Win	ona
\$ Keyes, J. D. Winona \$ Steiner, I. W. Wir Benoit, F. T	ona
§ Boardman, D. V Winona McLaughlin, E. M. Winona § Tweedy, R. B. Wir § Christensen, E. E. Winona § Meinert, A. E. Winona § Vollmer, F. J. Wir Finkelnburg, W. O. Winona Neumann, C. A. Lewiston § Wilson, R. H. Wir	ona
§ Hartwich, R. F	ord

WRIGHT COUNTY MEDICAL SOCIETY Regular meetings, not scheduled Annual meeting, October Number of Members: 18

President W. E. HallMaple Lake	§†Catlin, J. J. Buffalo § Catlin, T. J. Buffalo § Ellison, F. E. Monticello
Secretary Catlin, T. JBuffalo	§ Greenfield, W. T
Anderson, W. PBuffalo Bendix, L. HAnnandale	§ Hall, W. E Maple Lake § Hart, W. EMonticello

Peterson, O. LCokato
§†Ridgway, A. MAnnandale
& Roholt, C. L
8 Ryding, Vincent T Dallas, Texas
Smorszczok, M Monticello
Michael Thielen, R. D Saint Michael
Thomas, William H Howard Lake
§ Thompson, ArthurCokato

f.

ter ter ike ike ort ter

Alphabetic Roster

Key to Symbols: *Deceased; †Affiliate, Associate or Life Member; ‡In Service

	Aagaard, G. N., JrMinneapolis Aanes, A. MRed Wing
	Aanes, A. MRed Wing
†	Aborn, W. H
	Abraham, A. LDuluth
	Abramson, Milton Minneapolis
	Achor, R. W. PRochester
	Adair, A. F., JrSaint Paul Adams, B. SHibbing
	Adams, B. S
	Adams, F. HMinneapolis
	Adams, R. CRochester
	Addy. E. R
+	Adkins (D Minneapolis
÷	Adkins, C. M Thief River Falls
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	Adson, A. WRochester
	Ag-14 D E
	Affeldt, D. E
1	Aga, JohnMankato
	Ahren, E. EMinneapolis
	Ahlfs, J. J
	Ahren, E. EMinneapolis Ahlfs, J. JCaledonia Ahrens, A. HSaint Paul
	Ahrens, A. HSaint Paul Ahrens, A. ESaint Paul Ahrens, C. FGalveston, Texas Ahrens, R. MSaint Paul
4	Ahrens, C. F Galveston, Texas
	Ahrens, R. MSaint Paul
Ŧ	Aitkens, H. BLe Center Akester, WardFergus Falls Akins, W. MRed Wing
	Akester, WardFergus Falls
	Akins, W. MRed Wing Albrecht, H. HChisago City
	Albrecht, H. HChisago City Alcorn, Wm. JWabasso
+	Alden, J. F., JrSaint Paul Aldrich, R. ARochester
*	Aldrich, R. ARochester
	Alexander, H. AMinneapolis
	Alger, E. WMinneapolis
	Alger, E. WMinneapolis
	Aling, C. A
	Allen, E. V. NRochester
	Altnow, H. OMinneapolis
Ť	Amberg, Saml,Rochester
	Andersen, H. A Rochester
	Andersen, S. C Minneapolis
	Anderson, A. DRochester
	Anderson, A. S Minneapolis
	Anderson, C. DChicago, Ill. Anderson, Chester AMadison
	A J
	Anderson, Chester AHector
	Anderson, D. D Minneapolis
	Anderson, D. P., JrAustin Anderson, D. M Fargo, No. Dak.
	Anderson, D. M Fargo, No. Dak.
	Anderson, D. COlivia
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* * *	Anderson, D. C. Olivia Anderson, E. D. Minneapolis Anderson, E. M. Saint Cloud Anderson, E. R. Minneapolis Anderson, E. R. Minneapolis Anderson, Frank J. Owatonna Anderson, H. J. Austin Anderson, H. J. Mankato Anderson, M. J. Mankato Anderson, M. J. Rochester Anderson, M. J. Rochester Anderson, M. W. Rochester Anderson, R. E. Willmar Anderson, R. E. Willmar Anderson, W. P. Buffalo Anderson, V. S. Minneapolis Anderson, W. E. Clearbrook Anderson, W. E. Clearbrook Anderson, W. E. Clearbrook Anderson, W. Buffalo Anderson, W. B. Minneapolis Andreassen, E. C. Saint Paul Andrejek, A. R. Minneapolis Andrews, R. Mankato Arey, S. L. Minneapolis Arko, J. L. Hibbing Arlander, C. E. Minneapolis Armstrong, E. L. Minneapolis Armstrong, E. Minneapolis
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	Barnes, A. R.	. Rochester
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†	Estrem, T. A. Hibbin Eusterman, G. B. Rocheste Eustermann, J. J. Mankat Evans, E. T. Minneapoli Evans, L. M. Sauk Rapid	g o is

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Fritsche, Ineo. R	New Ulm
Fritz, W. L.	Saint Paul
Froats, C. W	Saint Paul
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Fuller, B. F	Saint Paul
Fuller, Josiah	
Funk V K	Oak Terrace
Funk, V. K. Furman, L. Christine	Minneapolic
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Ŧ	Galligan, Margaret M Minneapons
	Galloway, J. B Minneapolis
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1	Cambill E E Pochecter
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	Cardiner D G Saint Paul
	Cardener, D. G
	Gardner, V. H Fairmont
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	Garlock, A. V
	Carlock D H Remidii
	Carrott D. M. Caint David
	Garrow, D. M Saint Paul
	Garske, G. L
	Garten, I. L
	Castingou C F Pochester
	Castineau, C. FRochester
	Gaviser, David
	Gehlen, I. N Saint Paul
	Geiser P M Alexandria
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	Geraci, J. E
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	Genrs R R Mankato
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	GIDD, R. P
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	Giberson, R. G
	Gibson, M. MRochester
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	Lindberg, V. L. Minneapolis Lindblom, A. E. No. Mankato Linde, Herman

	MacCarty, C. SRoch	ester
+	MacCarty, W. CRoch	ester
Ť	MacDonald, A. E Minnea	polis
	MacCarty, W. CRoch MacDonald, A. EMinnea MacDonald, D. AMinnea	polis
	MacDonald, R. ALittle	fork
	MacFarlane, E. BRoch	ester
	MacFarlane P H Chis	holm
	Mach E P Minner	polie
	Mach D F Duch	Cita
	MacFarlane P. H. Chis Mach F. B. Minnea Mach R. Eush Rush MacKenzie D. A. Roch	City
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	MacKinnon, D. C Minnea	pons
	Macklin, W. E., JrWil	lmar
	Mackoff, S. MSaint	Paul
	MacLean, A. RRoch	ester
+	Macnie, J. SMinnea	polis
	MacRae, G. CD	uluth
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	Macnie, J. S. Minnea MacRae, G. C. D Madden, J. F. Saint Madison, M. S. Roch Madland B. S. Saint	ester
	Maeder F C Minnes	nolis
	Maertz, R. WFari	bault
	Maertz, R. W. Fari Maertz, W. F. Saint Magath, T. B. Roch	Paul
	Magath, T. BRoch	ester
	Magney, F. HD	uluth
	Magnuson A E Wh	eaton
	Magnuson, R. CCamb	ridge
	Magraw, R. MSaint	Paul
	Mahle, D. GPlair	view
	Mahowald Alove A	lhany
	Maitland F T	cheon
	Mahowald, AloysA Maitland, E. TJae Maland, C. OMinnes Malerich, J. AW. Saint	nolis
	Maland, C. O	Dani
	Maierich, J. A W. Saint	rau
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	Manger, W. M
	Mankey, J. CMinneapolis Mankin, H. WRochester
+	Mann. F. C
4	Mann, R. HRochester
Ŧ	Manson, F. MWorthington March, K. ACambridge
+	Marcley, W. JMinneapolis
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	Marshall, C. MCrosby
	Martens, T. G Rochester
	Martin, A. CLuverne Martin, D. AWabasha
	Martin, D. L Saint Paul
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	Martin, G. MRochester Martin, T. PArlington
	Martin, W. CDuluth
	Martin, W. JRochester
	Martineau, J. LSaint Paul Martinson, C. JWayzata
	Martinson, C. JWayzata Martinson, E. JWayzata Masson, D. MRochester
	Martinson, C. J. Wayzata Martinson, E. J. Wayzata Masson, D. M. Rochester
Ŧ	Masson, J. CRochester Masson, J. KRochester
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	Mathieson, D. RRochester
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	Mattson, A. DSaint James
	Mattson, H. A. N Minneapolis
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	Maytum, C. KRochester McBean, J. BRochester McBean, J. BRochester
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	McCarthy, Donald Saint Paul
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1	McCormick, D. PMinneapolis McCoy, Mary KDuluth McCrimmon, H. P. Cleveland, Ohio McDaniel, OriannMinneapolis
1	McCrimmon, H. PCleveland, Ohio
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	McDonald, O. GDuluth McDowell, J. PSaint Cloud
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	McIntire, H. MWaseca McIntire, S. FRochester
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3	McLeod, J. LGrand Rapids
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	McManus, W. FPrinceton McMorris, R. ORochester
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	Meade, J. R	Saint Paul
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	Mears, B. J	Saint Faul
	Mears, R. F	Northneid
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	Melancon, J. F	Saint Faui
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Ŧ	Mickelsen, Emma F.	Minneapons
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	Miller, W. A Miller, W. R	New York Mills
	Miller, W. R Miller, W. T	Red Wing
	Miller, W. T	W. Saint Paul
	Miller, Z. R	Saint Paul
	Million C H	Pachecter
	Millikan, C. H	Rochester
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	Moersch, H. J	Rochester
	Moersch, H. J Moersch, R. U	Pochester
	Moersch, R. U	Caint David
	Moga, J. A	Rochester Rochester Saint Paul Soudan
	Molander, H. A	Saint Paul
	Mollers, T. P	Soudan
+	Monahan, Elizabeth	Minneapolis
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	Monroe, F. D.	Classet
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	Monsour, K. I.	Rochester
	Montgomery Hamil	ton Rochester
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	Moore, I. H.	Minneapolis
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	Moquin, Marie A.	Saint Paul
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1	Moren T	Saint Days
1	Moren, J. A.	Saint Paul
	Morgan, H. O	Amboy
	Moriarty, Berenice	Saint Paul
	Moriarty, Cecile R	Saint Paul
	Moriarty, Cecile R.	Saint Paul
	Moriarty, Cecile R. Mork, A. H.	Saint Paul
	Moriarty, Cecile R, Mork, A. H Mork, F. E	Saint Paul Anoka Anoka
	Monson, E. M. Monson, L. J. Monsour, K. J. Montgomery, Hamil Moore, I. H. Moorhead, Marie Moos, D. I. Moquin, Marie A. Morehead D. E. Moren, Edward Moren, J. A. Morgan, H. O. Moriarty, Berenice Moriarty, Cecile R, Mork, F. E.	Saint Paul Anoka Anoka

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Morrison, C. J Minneapolis
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Morrison, R. WRochester Morrow, R. P., Jr. New Orleans, La.
Morse, M. PLeRoy Morse, R. WMinneapolis
Morse, R. W Minneapolis
Morsman, L. WHibbing
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Morton, G. H Scott Air Base, Ill.
Mosby, M. ELong Prairie
Moses, R. RKenyon
Mouritsen G I Fergus Falls
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Mueller, S. C
Muir, W. F Browns Valley
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Muller, R. T Saint Paul
Mulligan, A. MBrainerd
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Murphy, E. P. Minneapolis Murphy, J. T. Saint Paul Murphy, J. E. Marshall
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Murphy, I. E
Murray, R. A Hibbing
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Musty, N. I
Mussey, R. D. Rochester Mussey, W. C. Rochester Musty, N. J. Minneapolis Myers, III, C. San Antonio, Tex.
Myers, J. AMinneapolis
Myers, T. TRochester
Myers, W. P. LRochester
Myhre, J. AMinneapolis
Myre, C. RPaynesville
Myre, T. TRochester

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	Naegeli Frank Fergus Falls
	Nagel H D Waconia
	Nash I. A Saint Paul
	Naslund A W Minneapolis
	Navratil D R Montgomery
	Neal I M Minneapolis
	Nealy D F Adrian
	Nealy P P Minneapolis
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	Nelson, E. IOwatonna
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t	Nelson, H. S Los Angeles, Calif.
	Nelson, K. LBalaton
	Nelson, L. SMinneapolis
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	Nickerson, N. D., Thief River Falls
	Nielson, A. MNorthfield
	Nietfeld, A. BWarren
	Nilson, H. J No. Mankato
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	Nimlos, Lenore O Saint Paul
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	Noble, J. L Saint Paul
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Nordin, G. T Minneapolis	
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O'Connor, L. J Saint Paul O'Donnell, D. M Ortonville	†
O'Donnell, J. EMinneapolis	
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† Parker, O. W	
Parker, W. ESebeka Parker, W. HChisholm	
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P	arson, L.	R.		Elbo	w Lake
P	arsons, l	K. L	T-	N	lonterey
ř	arsons, v	W. I	o., Jr.,		Cloquet
Ť	asek, E.	A		Elbo	Cloquet
F	atch, O.	B.			. Duluth
F	atterson,	H.	D		Slayton
F	atterson,	W.	L	Ferg	us Falls
i	atton, M	. M.	, Jr	Euge	ne, Ure.
Ť	aulson,	I. A		R	ochester
Î	aulson,	r. s		Ferg	us Falls
H	aynter, (C. R			lochester.
. !	eabody,	H. I)., Jr	. San Di	ego, Cal.
1	earsall,	R. F			Shakonee
î	earson.	F. R		Sa	int Paul
3	earson,	M. 3	d	Sa	int Paul
1	Pearson,	L. ()		. Erskine
1	ease, Ge	rtruc	le L.		ochester int Paul
í	Pedersen.	R.	C		Duluth
j	Peluso, C	. R.		Mi	nneapolis
	Pemberton	n, J.	de J	1	Rochester
	Pender,	L. V	V	I	lochester
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j	Penn. G.	E.			Mankato
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	Peppard,	T	A	Mi	nneapolis
-	Periman,	E.	C	FI Cois	nneapolis
-	Perry. H	arold		El Cajo	Rochester
1	Person, J	. P.		A	Duluth w Lake w Lake w Lake w Lake w Lake lonterey ochester Cloquet Cloquet Cloquet sales w Lake Louister Louis
	Pertl, A.	L.			Canby
	Peters, G	A.	Tr		Rochester
	Petersen,	G.	н	Mi	northneid
+	Petersen.	I.	R	Mi	nneapolis
•	Petersen,	M.	C		Rochester
	Petersen,	P.	C	Mi	nneapolis
	Petersen,	R.	T	Sa	int Cloud
	Peterson	D.	B	MI	nneapons
	Peterson.	D.	Н	S	aint Paul
	Peterson,	E.	N		. Virginia
	Peterson,	H.	0	S	aint Paul
	Peterson,	H.	W. E.	M	nneapolis
	Peterson.	1	H. E.		Duluth
	Peterson,	Ke	nneth		. Marshall
	Peterson,	K.	Н	Н	utchinson
	Peterson,	1		Renc	
	Dataman	NT.	D	34	, Nevada
	Peterson,	N.	P	M	inneapolis Cokato
	Peterson, Peterson, Peterson,	N. O. O.	P. L	M	inneapolis Cokato inneapolis
	Peterson, Peterson, Peterson, Peterson,	N. O. O.	P. L. H. H., Jr	M M M	inneapolis Cokato inneapolis inneapolis
	Peterson, Peterson, Peterson, Peterson, Peterson,	N. O. O. O. P.	P. L. H., Jr E.	M M M	inneapolis Cokato inneapolis inneapolis inneapolis
	Peterson, Peterson, Peterson, Peterson, Peterson, Peterson,	N. O. O. O. P. R.	P. L H., Jr E	M M M	mneapolis nneapolis nneapolis nneapolis int Cloud nneapolis aint Paul aint Paul aint Paul inneapolis aint Paul uthinson bear aint Paul inneapolis inneapolis Cokato inneapolis inneapolis inneapolis inneapolis inneapolis inneapolis inneapolis
	Peterson,	N. O. O. O. P. R. S. W.	P. L. H., Jr E. A.	M M M M	inneapolisCokato inneapolis inneapolis inneapolisVestaAustin inneapolis
	Peterson, Peterson	W.	P. H. Jr E. A. C. C.	M M M M	inneapolisCokato inneapolis inneapolis inneapolis inneapolisVestaAustin inneapolisWillmar
	Peterson, Peterson	W. W. W.	С. Е. Н.	M Spri	inneapolis . Willmar ng Valley
	Peterson, Peterson, Peterson, Peterson,	W. W. W. W.	C E H Henr	M Spri	inneapolis . Willmar ng Valley inneapolis
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	Peterson, Peterson, Peterson, Peterson,	W. W. W. W.	C E H Henr	M Spri	inneapolis . Willmar ng Valley inneapolis
	Peterson, Peterson, Peterson, Peterson, Petit, J. Petit, L. Petrabor, Pewters, Peyton, Pfuetze, Pfunder, Phares, Phares, Phelps, Philp, Pierce,	W. W	C. E. H. Henr T. T. T. T. H. C. S. A.	Spri y M M M M M Ch Si	inneapolis . Willmar ing Valley inneapolis inneapolis . Aitkin inneapolis icago, Ill. iinneapolis icago, Ill. iinneapolis int Cloud Rochester iinneapolis . Windom . Wadena
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† †	Peterson, Pfuetze, Pfunder, Phares, Phelps, Philps, Philps, Pierce, Pierson, Pierce, Pierson, Pierce, Pierson, Pierce, Pierson, Pierce, Pierson,	W.W. W. V. J. H. O.W.K. R. R. C. C. R. C. R. C. C. R. C.	T. T. T. T. H. C. S. A. I. B. B. F. W. J.	M. Spriy M. M	imeapolis Willmar gg Valley inneapolis
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t Panage M I Hangook	
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berg, S. M.: Asthma—Present us of Therapy, Chicago M. Bull. 57:1062 (June 18) 1949.

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Minnesota Academy of Medicine

Meeting of November 8, 1950

The regular monthly meeting of the Minnesota Academy of Medicine was held at the Town and Country Club on Wednesday evening, November 8, 1950. Dinner was served at 7 o'clock and the meeting was called to order at 8:10 p.m. by the President, Dr. William A. Hanson.

There were forty-nine members and one guest present. Minutes of the October meeting were read and approved.

There was some discussion regarding the new amendments to the Articles of Incorporation, but a motion was finally passed that those articles in question be reported back to the committee from which they came for rewording, and to be reported at a later meeting.

A motion was carried that the election of new members be deferred until the next regular election in April, 1951.

Dr. Theodore Sweetser read the following Memorial to Dr. A. E. Cardle, and a motion was carried that it be spread on the records of the Academy and a copy sent to the family.

ARCHIBALD E. CARDLE 1899-1950

The loss of Archibald Cardle in the airplane disaster of June 23, 1950, was a shock to Minneapolis and to the medical profession of Minnesota and the nation. His accomplishments were well known, as was the promise of his future.

We who knew him personally through the years realized what a loss he would be to his profession in its scientific efforts as well as in its relations to the rest of the population. But more than that, we realized that we had lost a patient, understanding, kindly colleague and friend.

Our knowledge of his life here makes us sure that he has attained a well-earned reward. But we know how sorely he is missed by his friends, and especially by his family, to whom we wish to express our heartfelt sympathy.

The scientific program followed.

Dr. Charles H. Slocumb, of Rochester, by invitation, gave the paper of the evening, entitled "Use of Cortisone and ACTH in Rheumatoid Arthritis." Lantern slides were shown.

The meeting was adjourned.

WALLACE P. RITCHIE, M.D., Secretary

Meeting of December 13, 1950

The regular monthly meeting of the Minnesota Academy of Medicine was held at the Town and Country Club on Wednesday evening, December 13, 1950. Din-

ner was served at 7 o'clock and the meeting was called to order at 8:15 p.m. by the President, Dr. William A. Hanson.

There were fifty-nine members and twenty-two guests present.

The following men were elected as officers for the year 1951:

President.......Dr. William Hengstler, Saint Paul
Vice President......Dr. O. H. Wangensteen,
University of Minnesota
Secretary-Treasurer....Dr. Wallace P. Ritchie,
Saint Paul (Re-elected)

This meeting was in "Special Commemoration of the Twentieth Anniversary of the First Publications on Intestinal Obstruction by Dr. Owen H. Wangensteen."

Dr. Claude F. Dixon, of Rochester, had been invited to give the paper of the evening. He chose as his subject, "Prognostic Factors in Colonic Malignancy" (See page 424).

The meeting was adjourned.

WALLACE P. RITCHIE, M.D., Secretary

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- Fauley, G. B., Freeman, S., Ivy, A. C., Atkinson, A. J., and Wigodsky. H. S.: Arch. Int. Med. 67:653, 1941.
- 2. Upham, R., and Chaikin, N. W.: Rev. Gastroenterol. 10:287, 1943.
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+ Reports and Announcements

INTERNATIONAL ACADEMY OF PROCTOLOGY

The third annual convention of the International Academy of Proctology will be held at the Mayflower in Atlantic City, N. J., on June 7 and 8, 1951.

The scientific session of the program will feature the more recent developments in proctology through papers presented by outstanding speakers. These sessions will be open to members of the medical profession without charge.

The annual banquet of the Academy will take place on Thursday evening, June 7, 1951.

Further information concerning the convention and a copy of the program may be obtained by writing to the secretary, Dr. Alfred J. Cantor, International Academy of Proctology, 1819 Broadway, New York 23, N. Y.

INTERNATIONAL CONGRESS OF PHYSICAL MEDICINE (1952)

The International Congress of Physical Medicine will be held in London from July 14 to 19, 1952.

In accordance with the regulations of the International Federation of Physical Medicine, the meetings of the Congress will be reserved for matters dealing with the clinical, remedial, prophylactic and educational aspects of physical medicine and with the diagnostic and therapeutic methods employed in physical medicine and rehabilitation.

Technical, scientific and historical exhibitions also will be arranged.

In addition to the scientific program, a full program of social events and entertainment is being planned for the members and associate members. Arrangements for London and provincial visits of scientific and historical interest are also being made for the Congress week and the following week.

This is a preliminary notice, and full details will be announced later. Applications for the provincial program should be addressed to the Honorary Secretary, International Congress of Physical Medicine (1952), 45, Lincoln's Inn Fields, London, W.C.2.

AMERICAN PUBLIC HEALTH ASSOCIATION

The seventy-ninth annual meeting of the American Public Health Association, the eighteenth annual meeting of its western branch and the annual meetings of thirty-eight related organizations will be held simultaneously in San Francisco, October 29 to November 2. The combined meetings will bring together 5,000 health specialists from all parts of the Western Hemisphere. In San Francisco they will hear more than 400 authorities discuss modern public health practice in all its aspects and its vital relationship to national security and civilian defense.

CANCER MOTION PICTURES AVAILABLE

The Minnesota Division, American Cancer Society, has announced the availability of a new catalog of professional motion pictures related to cancer. This catalog, which lists the films available from the American Cancer Society, can be obtained from the Minnesota Division office.

Dr. Arthur H. Wells of Duluth, president of the Minnesota Division of the ACS, has pointed out that these professional films on cancer may be loaned to professional groups for showing in connection with meetings at which cancer may be discussed. These groups may be hospital staffs, medical schools, nursing schools, postgraduate courses in cancer, state and county medical meetings. There is no charge for the use of these films. Persons interested in obtaining a copy of the catalog may write to the Minnesota Division office of the American Cancer Society at 622 Commerce Building, Saint Paul 1.

MINNESOTA SOCIETY FOR CRIPPLED CHILDREN

The Minnesota Society for Crippled Children is a component part of the National Society for Crippled Children. In recent years the Society has been putting on an Easter Seal drive to raise funds to carry on the nationwide activities of this organization to help children and adults, who are crippled in one way or another, to live normal lives.

This year the Easter Seal drive in Minnesota fell behind other states. Some \$80,000 more is needed to carry on the statewide activities desired. With the many requests for contributions, it is easy to let the small contribution to this society slide. Not necessarily a large contribution, but a large number of small contributions, will enable the society to carry out its work locally without curtailment.

Contributions may be sent to the Minnesota Society for Crippled Children and Adults, 1635 Hennepin Avenue, Minneapolis 3, Minnesota.

MINNESOTA SOCIETY OF MEDICAL TECHNOLOGISTS

The Minnesota Society of Medical Technologists will hold its annual convention on May 18 in the Minneapolis Auditorium and on May 19 at the Mayo Clinic Women's Club. Rochester.

Dr. Walter H. Seegers, professor of physiology and chairman of Wayne University College of Medicine, Detroit, Michigan, will be the guest speaker for the scientific meeting on the afternoon of May 18. He will discuss "Clotting of Blood" from 2:00 to 4:00 p.m. in Room 5, Minneapolis Auditorium.

At the morning session, from 10:30 to 12:00, in Room 5, Minneapolis Auditorium, Dr. Paul G. Frick and Miss

(Continued on Page 498)

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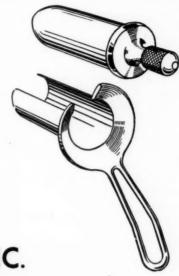
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- From The Literature

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REPORTS AND ANNOUNCEMENTS

MINNESOTA SOCIETY OF MEDICAL TECHNOLOGISTS

(Continued from Page 496)

M. Jeanette Stephens of the University of Minnesota Hospitals will discuss and demonstrate "Routine Coagulation Tests—Their Technique, Limitations and Clinical Implications."

All interested are cordially invited to attend.

RAMSEY COUNTY TUBERCULOSIS AND HEALTH ASSOCIATION

At the annual meeting of the Ramsey County Tuberculosis and Health Association (formerly known as the Ramsey County Health Association), held April 25, 1951, at the Athletic Club in Saint Paul, the following officers were elected:

President—Edward A. Knapp
First Vice President—J. Richards Aurelius, M.D.
Second Vice President—John B. Burke
Treasurer—P. A. F. Smith
Assistant Treasurer—J. A. Caritzel
Executive Secretary—Ruth P. Junkin
Secretary—E. A. Meyerding, M.D.

The most impressive report of the activities of the year 1950 was the discovery of fifty-six unsuspected cases of tuberculosis as a result of the free chest x-ray survey that year. These were individuals who, had not their condition been detected, would now be disseminating the disease and would in some cases have escaped early detection, so important for the treatment of the patient.

SAINT PAUL SURGICAL SOCIETY

At a meeting of the Saint Paul Surgical Society at the Minnesota Club on March 21, Dr. Lyle Hay and Dr. Clarence Dennis were guest speakers. Dr. Hay, chief surgeon at Minneapolis Veterans Hospital, discussed "Perforated Duodenal Ulcers." Dr. Dennis, professor of surgery at the University of Minnesota, spoke on "Ulcerative Colitis."

WASHINGTON COUNTY SOCIETY

The regular meeting of the Washington County Medical Society was held in Stillwater on April 10. Guest speakers at the meeting were Dr. Vernon Smith and Dr. Albert F. Hayes, both of Saint Paul. Dr. Smith spoke on "Thrombo-embolic Phenomena," and Dr. Hayes discussed "Rupture of the Uterus."

The scientific program was followed by a presentation of motion pictures by Dr. Smith. The color pictures, showing a hunter's paradise as well as skiing adventures, were accompanied by rapid-fire comments by Dr. Smith.

In April the county society finished the publishing in county newspapers of the "educational posters" supplied by the Minnesota State Medical Association. The posters appeared 127 times.



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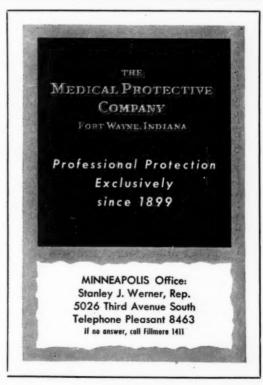
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In Memoriam

FERDINAND G. BENN

Dr. F. G. Benn, formerly of Minneapolis, died at LaMesa. California. March 12, 1951.

Dr. Benn was born at Amenia, North Dakota, September 14, 1878. His preliminary education was obtained at Castleton, North Dakota. He obtained a B.S. degree from The North Dakota College, Fargo, in 1898 and his M.D. degree from Hamline in 1903. Some twenty-one months of postgraduate study was taken in Chicago, New York and Vienna.

Dr. Benn practiced at Kulm, North Dakota, from 1903 to 1907 and again from 1908 to 1913. Since 1913 he had practiced in Minneapolis until he moved to La-Mesa three years ago.

He was a member of the Hennepin County Medical Society, the Minnesota State Medical Association and the American Medical Association. He was a member of the staff of St. Barnabas Hospital and of Joppa lodge.

Dr. Benn is survived by a daughter, Mrs. Dorothy Schultz, Hopkins, and a son, Howard.

EDWIN JOHN GERALD BLOEMENDAAL

Doctor Bloemendaal of Lake Park, Minnesota, died early in April, 1951.

He was born in Orange City, Iowa, December 4, 1910. His preliminary education was obtained at Northwestern Classical Academy and Northwestern Junior College at Orange City, Iowa. He obtained his M.D. degree from the Iowa School of Medicine, Iowa City, Iowa, in 1936. He interned at Providence Hospital, Detroit, Michigan, and took postgraduate work at the University of Minnesota for six months. He served in the United States army for nearly nine years.

FELIX CHARLES DOLDER

Dr. F. C. Dolder, well-known practitioner of Eyota, Minnesota, died March 19, 1951 after a brief illness. He was seventy-six years of age.

Dr. Dolder was born in Chicago, March 30, 1874. He received his early schooling at Chicago English High School at Manual Training High School and at Armour Institute in Chicago. His medical training was obtained at Northwestern University from which he was graduated in 1903. He took additional training at the Postgraduate School in Chicago.

Dr. Dolder practiced at Joliet, Illinois, and at Hastings and St. Charles in Minnesota before locating at Eyota thirty-seven years ago.

On September 17, 1908, he was married to Emma Mary Luhmann at Dover. His wife passed away September 18, 1944. A son and daughter survive him.

Dr. Dolder was a member of the Olmsted-Houston-Fillmore-Dodge County Medical Society, the Minnesota State Medical Association and the American Medical Association. He was president of the Eyota Commercial Club in 1941 and a former mayor of Eyota. During more recent years he was well known for the elaborate Christmas decorations which he sponsored, in particular the customary huge Christmas bell which hung over the street near his home.

JOSEPH E. HEARD

Dr. Joseph E. Heard, former fellow in surgery of the Mayo Foundation, died at Shreveport, Louisiana, on January 19, 1951.

Dr. Heard was born at Brownsville, Tennessee, on December 15, 1888. He received the degree of M.D. in 1914 from Tulane University in New Orleans, and was an intern at the Charity Hospital in New Orleans from June, 1914, to June, 1916. He entered the Mayo Foundation as a fellow in surgery in July, 1916, and left the Mayo Foundation in July, 1922. During that time he served as a captain in the medical corps of the A.E.F. in France from August, 1917, to July, 1919. For four months he practiced at the Holt Clinic in Fort Smith, Arkansas, after which time he went to Shreveport, Louisiana, to practice surgery where he remained until the time of his death.

Doctor Heard was a diplomate of the American Board of Surgery, a fellow of the American College of Surgeons, a member of the American Medical Association, and a major in the Medical Reserve Corps of the United States Army.

CARL A. SCHERER

Dr. Carl A. Scherer of Duluth died February 12, 1951, at the age of sixty-eight.

Dr. Scherer was born in New Ulm, February 23, 1881. He attended Pillsbury Academy before graduating from the University of Michigan Medical School in 1907.

He practiced in Bolivia from 1909-12 and studied in Munich and Zurich in 1912-13. He was instructor in communicable diseases and diseases of children 2: the University of Minnesota from 1914 to 1916.

Dr. Scherer was associated with the Duluth Clinic for a number of years and was a former president of the ' St. Louis County Medical Society. He was health officer of St. Louis County from 1934 to 1944.

Death occurred at Maryville, California, where he was serving as county health officer.

GEORGE JACOB SCHOTTLER

Dr. George J. Schottler, a practitioner in the Dexter community for fifty-four years, died February 15, 1951. He was eighty years of age and had practiced for fifty-four years.

Doctor Schottler was born at Rockfield, Wisconsin, November 5, 1870. After attending district schools in

(Continued on Page 502)



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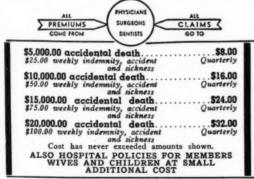
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Head Pain as a Diagnostic Lead

Frequently the presence of head pain is overlooked. The physician learns of it only if he has made an effort to elicit the information. Since the etiology of the pain is the basis of rational management, the patient should be warned against taking medication before diagnosis is made.

Friedman¹ deplores the tendency to call any chronic recurring headache migraine. Careful history-taking and full physical and neurological examinations are essential for accurate diagnosis. A good starting point is a description of the headache—its character, laterality, frequency and intensity.²

The following chart gives briefly the primary diagnostic leads and treatment for the most common types of headache.

Etiology of Headache	Primary Diagnostic Data	Primary Therapy
Inflamma- tory e.g., Meningitis Abscess	Inflammation of intracranial structures; fever; leucocytosis; bacteriologic diag.	Specific: sulfon- amides and antibiotics. Symptomatic: analgesics.
Tumor	Pain varies as spinal press. changes; skull X-ray.	Specific: surgery. Symptomatic, analgesics &/or hypnotics.
Sinusitis	Sinus congestion and infection; cloudy X-ray.	Specific: antibiotics and drainage. Symptomatic: analgesics.
Hyper- tensive	Hypertension present but pain not related to b. p. level; Di- hydroergotamine. relieves pain.	General hyperten- sion therapy; seda- tion. Symptomatic: analgesics.
Migraine & other vascular beadaches	Headache: recurrent, intense, throbbing. No organic causa- tion; migraine in family; patient: energetic, perfec- tionist. Visual prodromata; g-i. upset during	To abort attack: oral ergotamine plus caffeine. General: adjustment to minimize ner- vous stress.

Data here tabulated is from: Wolf, G., Jr., 3 and Friedman, A. P. A. Cecil⁵ ranks vascular headaches, e.g., migraine and tension headaches, as the most commonly encountered of all. Because of their functional nature and usual recurrence at frequent intervals, they present a long-term therapeutic problem.

Therapy is conducted along two lines:

1) Psychotherapy to reduce the frequency of attacks. This consists mainly of advice on emotional adjustment to stressful situations and guidance toward a good balance between work and relaxation.

2) Treatment of the distressing attack to prevent the usual period of incapacitation. Many investigators have reported that ergotamine preparations are effective for relief of the acute migraine attack in 80% of cases.\(^1\). The drug is given immediately when an attack is approaching and dosage adjusted to the needs of the individual.

1. Friedman, A. F. and von Storch, T.: 99th A.M.A. Session, June 1950. 2. Butler, S. and Hall, F.: M. Clin. N. Amer., p. 1459 (Sept.) 1949. 3. Wolf, G., Jr.: M. J. 342; 1951. 4. Friedman, A. P. and Conn, H. T.: Carrent Therapy, 1950. p. 565; Saunders Co., Phila. 5. Cecil. R. L.: A Tertbook of Medicine. ed. 7. 1948. p. 1483; Saunders Co., Phila. 6. Horton, B. et al. Staff Ment. of Mayo Clinic 20:241, 1945.

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GEORGE JACOB SCHOTTLER

(Continued from Page 500)

Wisconsin, he took a teacher's course in the North Indiana Normal School at Valparaiso, Indiana, graduating in 1892 with a B.S. degree and then attended Rush Medical School where he obtained his M.D. degree in 1896. He began practice at Dexter the same year. He took postgraduate work at Chicago Postgraduate School at a later date.

On March 27, 1947, Doctor Schottler shared honors with Dr. O. H. Hegge and the late Dr. A. E. Henslin at a dinner held in Austin in their honor. All three had each given more than fifty years of service to his community. Five years ago the county he served gave a party sponsored by the Dexter American Legion Auxiliary on the occasion of his seventy-fifth birthday.

Dr. Schottler was a member of the Mower County Medical Society, the Minnesota State Medical Association and the American Medical Association. He is survived by his wife; three sons, Dr. Max Schottler of Minneapolis, Kenneth of Duluth and Jesse of White Plains, New York; and a daughter, Mrs. Kathryn Remington of Chicago.

GLADYS TROMMALD SHERRILL

Dr. Gladys Trommald of Brainerd, who in 1950 married C. H. Sherrill, passed away March 1, 1951. She was forty-seven years of age.

Doctor Trommald was born July 21, 1903 in Brainerd, Minnesota. She was a graduate of Washington High School at Brainerd and obtained her M.D. degree from the University of Minnesota Medical School in 1930. She served in Northville, Michigan, and in Jacksonville, Illinois, as a psychiatrist before acting as assistant superintendent at the Anoka State Hospital.

Doctor Trommald is survived by her husband and one brother, Al Trommald, both of Brainerd.

ALBERT BERRY STUART

Dr. Albert B. Stuart, a physician of Cloquet, Minnesota, for the past thirty-two years, passed away March 21, 1951. He was sixty-eight years of age.

Dr. Stuart was born at Chariton, Iowa, September 1, 1882. He was graduated from the School of Medicine at the University of Nebraska in 1904. He served as an extern at the W.C.A. Hospital in Council Bluffs, Iowa.

Upon his return from service in the army overseas, he was associated with the Debarkation Hospital in New York and also served on the staff of Bellevue Hospital in New York before coming to Cloquet.

Dr. Stuart was a surgeon for the Northern Pacific Railway, served on the Cloquet Fire Commission, the Library Board and the Civic Center Board. He belonged to the local Masonic lodge and the Association for the Advancement of Science. He was a member of the St. Louis County Medical Society, the Minnesota State Medical Association and the American Medical Association.

He is survived by his wife, a son, Donald M. Stuart, of Indianapolis and a brother, Fred, of Joliet, Illinois.

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Dr. Elmer L. Henderson, president of the AMA, recently completed a tour of the United States military bases and operations in the Pacific area. He visited hospitals, talked with hundreds of Army, Navy and Air Force physicians, conferred with General MacArthur and flew over the battle lines in Korea. General MacArthur told Dr. Henderson that American wounded in the Korean war are getting the best medical care ever supplied soldiers anywhere.

Dr. John S. Siegel, Virginia, returned early in April from a three-week trip to California, during which he attended a meeting of the American Academy of General Practice at San Francisco.

A compilation of thirty scientific papers presented last fall at a University of Minnesota symposium on hypertension in honor of three Minnesota medical scientists has been published by the University of Minnesota Press.

The book, "Hypertension: A Symposium," was edited by Dr. Elexious T. Bell, professor emeritus of pathology at the University and one of the three men honored at the conference last fall. Tribute was also paid to Dr. Benjamin J. Clawson, professor emeritus of pathology, and Dr. George E. Fahr, professor emeritus of medicine.

Contributors to the book include physicians from every section of the United States and from three foreign countries. The book summarizes existing knowledge of hypertension, its causes and its treatment, and points the way to future research in the field.

Dr. Ludvig R. Lima and Dr. William A. Owens moved their offices into new quarters in the Arneson Drug Store Building in Montevideo during the middle of March. The new quarters for the clinic include offices for four physicians, examination rooms, waiting room, library, laboratory and a room for minor surgical operations.

Dr. Arthur M. Hall, Minneapolis, has accepted a call to serve as a missionary to South Africa for the Evangelical Lutheran Church.

Dr. Charles W. Rucker, Rochester, presented a talk on his trip to Guatemala at a meeting of the International Relations Club of Rochester Senior High School on April 4. His talk was illustrated with slides.

Among Minnesota physicians who registered at the fourteenth annual meeting of the New Orleans Graduate Medical Assembly, which was held March 5 to 8, were the following: Dr. D. L. Donovan, Albert Lea; Dr. H. C. Johnson, Thief River Falls; Dr. Francis McCarten, Stillwater; Dr. J. B. Nixon, Crosby; Dr.

George S. Baker and Dr. Arlie R. Barnes, Rochester; Dr. Thomas J. Edward, Dr. James R. Ralph and Dr. Ramby C. Rasmussen, Saint Paul; Dr. Jay C. Davis, Dr. Russell Heim, Dr. John L. McKelvey, Dr. William H. Rucker, Dr. A. N. Russeth, and Dr. Albert V. Stoesser, all of Minneapolis.

Dr. B. T. Bottolfson, Moorhead, has moved his offices to the second story of the newly constructed Bottolfson Building in Moorhead. For the past five years his offices have been located in a Fargo building.

Dr. William O. McLane, formerly associated with the Bratrud Clinic at Thief River Falls, has taken over the practice of the late Dr. J. Lehman in Brainerd.

Dr. Richard L. Varco, associate professor of surgery at the University of Minnesota, was the principal speaker at a meeting of the Grand Forks, North Dakota, District Medical Society on March 21.

"Detection and Prevention of Cancer and Heart Disease" was the theme of a meeting held by the Twin Cities Lodge, American Federation of Government Employes, in Saint Paul on April 12. On the program Dr. John F. Briggs, Saint Paul, past president of the Minnesota Heart Association, spoke on "New Hope for Hearts."

Dr. Bernard S. Nauth, formerly of Winona, has opened offices for the practice of medicine in Bagley. Before moving to Bagley, he was associated with the Winona Clinic from 1945 to 1950.

Dr. John F. Pohl, Minneapolis, left for Europe during the first week of April to begin a three-month fellowship under the World Health Organization. He will study treatment, care, management and employment of crippled people in England, Germany, France and Austria.

Dr. D. L. Johnson, Little Falls, returned on April 3 from a two-week trip to California, where he attended a meeting of the American Academy of General Practice in San Francisco.

"An Atlas for the Clinical Use of the MMPI," a handbook for case histories for users of the Minnesota Multiphasic Personality Inventory, was published during the first week of April by the University of Minnesota Press. Authors of the volume are Professors Starke R. Hathaway and Paul E. Meehl. The book contains 968 case summaries, documenting a representative cross section of clinical experience with the MMPI, a test devised by Dr. Hathaway and the late Dr. J. C. McKinley.

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Official Registration Figures

MINNESOTA STATE MEDICAL ASSOCIATION'S ANNUAL CONVENTION
Rochester, Minnesota April 30-May 2, 1951

Doctors	
Nurses, Dietitians, Technici and Medical Secretaries	ans, Social Workers 46
Scientific Exhibitors	4
Commercial Exhibitors	
Women's Auxiliary	
Guests (Miscellaneous)	
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Dr. and Mrs. F. L. Kling, Milaca, were named "Tourists of the Week" at Weslaco, Texas, while vacationing there late this last winter. For the past seven years they have spent part of the winter at the Weslaco Trailer Park, living in their trailer home. Dr. Kling has practiced in Milaca as a general physician and surgeon for forty years.

It was announced on March 22 that the partnership of Dr. H. H. Holm and Dr. John W. Gridley in Glencoe would be dissolved on April 1. Dr. Gridley, who became associated with Dr. Holm in 1946, planned to spend two months in postgraduate training and then, on June 1, become a partner in the Medical Arts Clinic at Watertown, South Dakota.

Dr. George N. Aagaard, assistant professor of medicine at the University of Minnesota, was principal speaker at a meeting of the Lutheran Student Sunday Evening Club at the University's Coffman Memorial Union on April 15. He spoke on the topic, "Are We Accentuating the Positive?"

A "Doctors Exchange," designed to provide better medical service to the community, has been established in St. Cloud by the local physicians. All afterhour calls to physicians are centralized in one switchboard, which is open twenty-four hours a day. The exchange operator is informed at all times as to where physicians can be located, and if a specific physician is not immediately available, the exchange

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Dr. J. C. Lannin, of Mabel, suffered a dislocated clavicle on March 27 when his car rolled backwards as he was alighting from it and severely twisted his shoulder.

Dr. H. Herman Young, Rochester, was a speaker at the accident prevention clinic held in Mankato on April 12. Dr. Young described his work in determining the causes of farm accidents and planning prevention programs.

Dr. C. W. Wasmund has returned to Red Wing and has become associated again with the Interstate Clinic. For the past eighteen months he has been working in the ophthalmology departments of several New York hospitals.

Dr. Christopher Graham, well-known Rochester physician, celebrated his ninety-fifth birthday in Rochester on April 3.

Dr. Charles W. Rogers, Winona, attended a meeting of the American Academy of Pediatrics in Cincinnati, Ohio, during the last week of March.

Dr. Robert A. Huseby, cancer research specialist at the University of Minnesota, discussed modern developments in cancer control at a one-day conference on cancer at St. Luke's Hospital, Duluth, on March 31. Sponsored by the Duluth District, American Cancer Society, the meeting was open to the public and featured discussions by a number of authorities on cancer.

Dr. Robert W. Hollenhorst, Rochester, participated in a spring graduate course at Gill Memorial Eye, Ear and Throat Hospital at Roanoke, Virginia, during the first week of April. He presented four papers entitled "Cortisone in the Treatment of Eye Disease," "The Eye in Hypertensive Cardiovascular Disease," "The Eye Manifestations of the Diffuse Collagenous Diseases" and "Optic Neuritis."

Dr. E. Mendelssohn Jones, chief of the surgical staff of Ancker Hospital, Saint Paul, was honored on April 21 at a testimonial dinner given by the members of the surgical staff at the Minnesota Club. Surgical residents and their wives were guests. Dr. Jones has been a member of the staff of the hospital since 1918 and has been chief of the surgical section for several years.

Dr. James M. Wagoner has opened offices for the practice of medicine in Harmony. A graduate of Indiana University School of Medicine, he served in the Army during World War II and later practiced in Indiana for two and one-half years.

Dr. and Mrs. Robert E. Hansen and their children, Tommy and Jeanne, have moved from Hibbing to



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Rochester, where Dr. Hansen began a fellowship at the Mayo Foundation on April 1.

Dr. Nathan K. Jensen has announced the opening of offices at 1935 Medical Arts Building, Minneapolis, for the practice of general and thoracic surgery.

The report of a committee on chronic and convalescent care in Saint Paul on March 21 indicated that the city needs three fifty-bed chronic-care hospital units and an additional public nursing home with 350 to 400 beds.

The committee, whose report was approved by the Saint Paul Area Health Council, was headed by **Dr.** Ralph L. Olsen. The committee estimated that there are 4,230 chronically ill persons in Saint Paul in a year, that 69 per cent of them are over sixty-five years of age, and that two-thirds of them need hospital or nursing-home care.

Dr. John W. Kirklin, Rochester, spoke on "Special Considerations in the Surgery of Infants and Children" at a meeting of the Jackson County Medical Society in Kansas City, Missouri, on March 27.

Dr. H. E. Coulter and Dr. W. J. Hruza moved their offices into their newly constructed office building in Madelia on March 24.

Dr. George W. Bagby moved from Cannon Falls to Rochester during the first week of April. He has begun a fellowship at the Mayo Foundation. Speaking at a meeting of the Saint Paul Association of Officemen on March 27, Dr. Gordon R. Kamman, Saint Paul, discussed the Minnesota mental health program.

Among Minnesota physicians attending the annual meeting of the American Academy of General Practice in San Francisco late in March was Dr. Harry B. Clark of St. Cloud.

Minnesota's eighty-four rural counties spent more than \$49,000 in Christmas Seal money last year to help finance the search for cases of tuberculosis, the Minnesota Public Health Association reported on March 26. Counties offering free chest x-rays to all residents last year included Goodhue, Mower, Kandiyohi, Lake of the Woods, Koochiching, Dakota, Rice, Grant, Waseca, Sherburne, Pope, Wabasha and Fillmore.

Dr. Kenneth D. Devine and Dr. John R. Hill were speakers at a meeting of the Chippewa County Medical Society in Chippewa Falls, Wisconsin, on April 10. Dr. Devine spoke on "Injuries of the Face and Facial Bones," and Dr. Hill discussed "Abscesses and Fistulas of the Anorectal Region."

Physicians of Fairmont and the surrounding area, all staff members of the Community Hospital, began a new policy in March of holding monthly staff conferences to correlate policies and keep informed on

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new therapeutic developments. Chief-of-staff for this year is Dr. W. H. Rowe of Fairmont.

BLUE CROSS AND BLUE SHIELD NEWS

Minnesota Blue Shield enrollment at the close of 1950 had risen from the 1949 total of 260,501 to 411,733. The 1950 Blue Shield payments on medical claims totaled \$2,249,032.00 as compared to the 1949 total of \$1,156,-231.00. Nationally, Blue Shield covers over 18,000,000 people, Blue Cross over 40,000,000.

In view of the adjusted payments for some items in the schedule of payments to doctors, which were adopted during the latter part of 1949, and increased incidence, it was anticipated that the ratio of surgical-medical service expense to total earned income would be considerably greater than for the year, 1949, however, the percentage of surgical-medical service expense to total earned income for 1950 was 76.3 per cent compared with 72.8 per cent for 1949, or only a 3.5 per cent increase.

According to the latest report on all Blue Shield plans, as of September 30, 1950 these plans showed that an average of 80.94 per cent of income was used for medical and/or surgical expenses, 12.79 per cent was used for operating expenses, and 6.27 per cent for net income for reserves. The continued co-operation between Minnesota Blue Cross and Blue Shield has benefited both plans resulting in increased enrollment, decreased operating expenses, and in meeting the needs of the public

who for the most part consider hospital and doctor bills as one item.

The present allowance of \$25.00 for tonsillectomies performed on children under 13 years of age, has been increased effective May 1, 1951, to \$30.00 for children who are eligible under the contract. This increase was based upon a study and recommendation by the Medical Advisory Committee, and was approved by the Board of Directors of Minnesota Medical Service, Inc., on March 28, 1951.

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Last year for the first time we offered Blue Shield and Blue Cross contracts to individuals not eligible to enroll through groups. The underwriting of these individuals is more hazardous than group underwriting. Experience so far has been satisfactory. Continued studies are being made to determine whether or not individuals may be enrolled more often than under the present method.

The third non-group campaign for Blue Cross and Blue Shield opened on April 1 and closed April 21. To publicize the campaign, advertisements were placed in three metropolitan newspapers and other newspapers in the State. Radio spot announcements by Cedric Adams also helped to promote the non-group program. These advertisements and spot announcements are part of a promotional campaign planned for 1951. The total program includes 22 newspaper advertisements, and 20-second radio announcements by Cedric Adams for a period of 26 weeks, six nights a week, beginning April 2.



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Books listed here become the property of the Ramsey, Hennepin and St. Louis County Medical Libraries when reviewed. Members, however, are urged to write reviews of any or every recent book which may be of interest to physicians.

Books Received for Review

IMMUNOLOGY. Third Edition. Noble Pierce Sherwood, Ph.D., M.D., F.A.C.P. Professor of Bacteriology, University of Kansas, and Pathologist to the Lawrence Memorial Hospital, Lawrence, Kansas. 731 pages. Illus. Price \$8.00, cloth. St. Louis: C. V. Mosby Co., 1951.

HANDBOOK OF PEDIATRIC MEDICAL EMER-GENCIES. Adolph G. DeSanctis, M.D., Professor of Pediatrics and Chairman of the Department of Pediatrics, Postgraduate Medical School, New York University-Bellevue Medical Center, Director of Pediatrics, University Hospital, New York University-Bellevue Medical Center, Director of Pediatrics, Gouverneur Hospital, New York City; and Charles Varga, M.D., Instructor in Pediatrics, Postgraduate Medical School, New York University-Bellevue Medical Center, Assistant Attending Pediatrician, University Hospital, New York University-Bellevue Medical Center, Assistant Visiting Pediatrician, Gouverner Hospital, New York City. 284 pages. Illus. Price \$5.00, cloth. St. Louis: C. V. Mosby Co., 1951.

CHRONIC ULCERATIVE COLITIS. J. Arnold Bargen, M.D. Division of Medicine, Mayo Clinic, Rochester, Minnesota. 62 pages. Illus. Price \$2.00, flexible binding. Springfield, Illinois: Charles C Thomas, 1951.

HYPERTENSION—A Symposium held at the University of Minnesota on September 18, 19 and 20, 1950, in honor of Elexious T. Bell, M.D., Benjamin J. Clawson, M.D., and George E. Fahr, M.D. Edited by E. T. Bell, M.D. 573 pages. Illus. Price \$7.50, cloth. Minneapolis: Colwell Press, 1951.

SOME CONTEMPORARY THINKING ABOUT THE EXCEPTIONAL CHILD: Proceedings of a Special Conference on Education and the Exceptional Child of the Child Research Clinic of the Woods Schools, November, 1949. Langhorne, Pa.: Woods Schools, 1949. Reprints free on request.

This excellent pamphlet contains the record of the proceedings of a special conference on feebleminded, palsied, and epileptic children, as well as certain other specially handicapped children. It is concerned particularly with broad problems of management and possible community action in handling these conditions. For this reason it is of particular interest to this state in our attempts to improve our care of these conditions. It is brief, concentrated, and thorough in its coverage of these conditions.

MULTIPLE SCLEROSIS AND THE DEMYELI-NATING DISEASES: Proceedings of the Association for Research in Nervous and Mental Diseases, Dec. 10 and 11, 1948, New York. (Research Publication v. 28). 675 pages, illus. Price \$12.00. Baltimore: Williams & Wilkins, 1950.

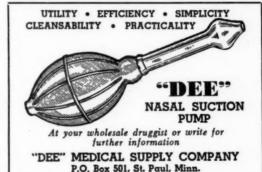
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MAY, 1951

Sclerosis and the Demyelinating Diseases. This, the twenty-eighth volume in a series of research publications, is a compilation and discussion of what is at present known about the demyelinating diseases. Over a quarter of a century has elapsed since multiple sclerosis was the subject of discussion at the annual meeting of the Association. In 1921, the Association first published the proceedings on multiple sclerosis in the second volume of the research publications.

A total of sixty-eight contributors representing all aspects of the demyelinating diseases have collaborated on their respective interest and knowledge in this disease. This volume brings to the clinician the latest in diagnosis, in treatment, and in probable etiology of multiple sclerosis, a neurologic disease familiar to all practitioners. The book is divided into eight major sections as follows: Part I.-Multiple Sclerosis, Historical Retrospect; Part II.-Ecology of Multiple Sclerosis; Part III.—Etiology of the Demyelinating Diseases; Part IV.-Blood Flow in Multiple Sclerosis; Part V.-Anatomic and Chemical Aspects of Multiple Sclerosis; Part VI.—Pathologic Aspects of the Demyelinating Diseases; Part VII.-Symptoms and Signs, Clinical Course and Diagnosis of Multiple Sclerosis; and Part VIII .-Current Treatment of Multiple Sclerosis.

The authors emphasize that the diagnosis of multiple sclerosis is not too difficult to make if one remains constantly aware of the fact that the crux of the diagnosis is the multiplicity or scattering of findings that defy localization to any single part of the central nervous system. It is also emphasized by the contributors that the diagnosis of multiple sclerosis is often made too glibly and surgical lesions that would account for the neurologic deficit are by-passed. Once the diagnosis of multiple sclerosis is made, investigation ceases to the detriment of the patient. Practically every practicing neurologist can recall a case wherein the diagnosis of multiple sclerosis was made and at a later date a brain or spinal cord tumor was removed. The chapter on the diagnosis of multiple sclerosis by Dr. Foster Kennedy emphasizes this point of the masquerade of multiple

This book will prove to be a most excellent reference to all who deal with neurologic disorders.

Z. R. M.

CORONARY ARTERY DISEASE. By Ernest P. Boas, M.D., Associate Physician, Mount Sinai Hospital, New York City, and Norman F. Boas, M.D. 399 pages. Illus. Price, \$6.00. Chicago: The Year Book Publishers, Inc., 1949.

This monograph is a timely and valuable addition to cardiac literature. The chapters on physiology, anatomy and pathology are an introduction that the busy practitioner will skim over hurriedly. The clinical portion will provoke much thought.

The author wisely considers the myocardial infarction as but an episode in the course of coronary heart diseases. However, it so often is such a major factor that a further discussion of the ultimate prognosis after myocardial infarction would have been valuable.

The discussion of the relation of activity and trauma to coronary disease is particularly interesting. The author presents good evidence in support of his thesis that many myocardial infarctions are caused by occupational factors.

Anyone who sees heart patients will find much of value in this book.

DAVID M. CRAIG, M.D.

VILLON, UN MAUVAIS GARÇON. Dr. Pierre Lôo. 119 pages. Price 350 frs., Paris: Vigot Freres, 23 rue de l'École de Medicine, 1950.

Here is another book about Villon, the "bad boy" among the poets. Hundreds of writers have discussed his "Petit Testament," his "Grand Testament," his Ballades" and other poems. Practically all acknowledge his genius, but there is not the same unanimity regarding his character. This attractive brochure is a psychological and medico-legal study of the self-confessed rascal.

Nearly all we know of Villon's life is set down in the frank and open revelations found in his verses. He was born in 1431. His father died when he was very young. His mother, pious, but poverty stricken, entrusted his education to a rather indulgent priest, Guillaume de Villon, chaplain of St. Benoit de Bétourné. The youngster played many tricks on his guardian and associated at night with all the bad boys in the neighborhood, which was just outside of Paris. With funds provided by the priest, he matriculated at the Sorbonne, where he acquired a smattering of classical knowledge. Eventually, he was made a "Master of Arts" and was licensed as a

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"clerk." Meanwhile, he had lived the night life of many Paris students of the day, gambling, drinking and making boon companions, of doubtful reputation, of both sexes. He was often without funds and in poor health. Dr Lôo does not believe he had tuberculosis. Returned to St. Benoit, he became involved in various robberies and even in a homicide which may have been in self defense.

His verses, sad and pessimistic as many of them are, seem still to be regarded as very beautiful, and the poet himself as worthy of affection. Rabelais, Daudier and Swinburne loved him, emphasizing his virtues and minimizing his faults. Robert Louis Stevenson was less lenient.

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Doctor Lôo takes a realistic view of the man, and attributes most of his acknowledged faults to the times and the environment. He concludes that his evident mental disease was not a psychosis but a psychoneurotic state. He had a brilliant intellect and no lack of emotions but not even an attenuated sense of moral responsibility. He was a "déséquilibré," an unbalanced personality. With a Christian background, a belief in a merciful God and a love for France, he still was powerless to act accordingly. Doctor Lôo raises the question, "Is not perhaps a great poet more useful to the world than an honest man?"

ARTHUR T. LAIRD, M.D.

A DICTIONARY OF THE FUNGI. G. C. Ainsworth, B.Sc., Ph.D., University College, Exeter, Devon; G. R. Bisby, M.A., Ph.D., Commonwealth Mycological Institute, Kew, Surrey. 447 pages. Illus. Price \$3.00, cloth. Kew, Surrey. The Commonwealth Mycological Institute, 1950.

Though titled a dictionary, this volume takes on a broader responsibility than a mere definition of mycological terms. The dictionary proper lists alphabetically the names of the various classes, orders, families and genera of fungi found throughout the world: also descriptive terms, as well as a number of helpful tables and more extended discussions of certain subjects of which the following are typical: Agaricaceae, antibiotics, bacteria, classification, collection and preservation of fungi, history of mycology, etc. Unfortunately for the physician or other casual inquirer in the realm of fungi, the data listed under the average term (the name of the genus, for example), are so condensed and terse as to be somewhat baffling until the system of reference is ferreted out piece by piece. For the true mycologist (to which rarefied genus the reviewer decidedly does not belong), the terseness may well be an advantage rather than a disadvantage.

While a key to the families of fungi is appended, also a systematic arrangement of the genera of Myxothallophyta (slime thallophytes) and Eumycetes (fungi), no attempt is made to list individual species of fungi, numbering some 37,500. Neither is any key given for identification of species of fungi-an endeavor which of itself would require a volume much larger than the present

It is obvious that the book is written for the mycological student, the scientist, rather than the hobbyist, the amateur collector of mushrooms or the chance

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wanderer among the fungi. For the professional inquirer, it is a scholarly work and should be an excellent reference.

RENO W. BACKUS, M.D.

THE PRACTICE OF MEDICINE. Jonathan Campbell Meakins, C.B.E., M.D., LL.D., D.Sc., Formerly Professor of Medicine and Director of the Department of Medicine, McGill University; Formerly Physician-in-Medicine, McGill University; Formerly Physician-in-Chief, Royal Victoria Hospital, Montreal; formerly Professor of Therapeutics and Clinical Medicine, University of Edinburgh; Fellow of the Royal Society of Edinburgh; Fellow of the Royal Society of Canada; Fellow of the Royal College of Physicians, London; Fellow of the Royal College of Surgeons, Edinburgh; Honorary Fellow of the Royal College of Surgeons, Edinburgh; Fellow of the Royal College of Physicians. Canada: Fellow of the American College of Physicians. Physicians, Canada; Fellow of the Royal College of Physicians, Canada; Fellow of the American College of Physicians; Honorary Fellow of the Royal Society of Medicine. 1558 Pages with 518 Illustrations, 50 in color. Price \$13.50. St. Louis: The C. V. Mosby Company, 1950.

The fifth edition of The Practice of Medicine is a large and cumbersome book. Only from a material aspect, however, as the reading is clear and certainly not cumbersome. The new advances in medicine, as in metabolism, the antibiotics, and chemotherapy, are included in the volume in a very readable manner. The section on psychosomatic medicine is especially interesting and useful to the physician who deals in internal medicine.

As stated in a review of the previous edition, the

MAY, 1951

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color plates used by the various contributors are outstanding in their teaching value.

In general, I would highly recommend this book. It should make up one of the units in every doctor's library.

JOSEPH M. RYAN, M.D.

PRACTICAL POINTS IN ALLERGY

(Continued from Page 445)

stitute tank type vacuum sweepers for the "beater" type.) Patients with chronic respiratory infection, nasal allergy, or bronchial asthma should be cautioned to keep sleeping room windows closed in inclement weather.

4. Emotional problems.

They must be dealt with. Bring them up for discussion and resolve them if possible.

In dealing with the asthmatic patient, probably more than with any other group, we must keep trying, alter the program as necessary, and be ready to deal with new factors as they may enter the picture. For this dejected and discouraged group of patients we must remain cheerful and radiate confidence to our patient. If you, as his physician, quit trying and give up, what about the patient?

Chronic Eczema

Chronic eczema is another of the more difficult problems encountered in the allergy clinic. Our experience has taught us that such factors as faulty nutrition, disorders of carbohydrate metabolism, thyroid dysfunction, superimposed skin infection and over-medication of the skin are just as important as are allergic factors. Protein tests may be helpful, and again they may be non-contributory. Chocolate, eggs, wheat products, milk and sensitivity to pollens may be important items to consider. The management of such skin conditions are left primarily to the dermatologist.

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Summary

1. Allergic patients may be encountered in any practice, regardless of our individual interests in medicine. We, as physicians, should be prepared with a basic plan of procedure when such individuals enter our office. Several treatment plans which have been helpful in this allergy clinic are presented.

2. A thorough and accurate history is the most important means we have of arriving at a correct analysis of such problems. Protein tests are helpful, but their importance should not be overemphasized.

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